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SEARS

OWNERS MANUAL

MODEL NO.
917.254220

CRAFTSMAN®

LT 10HP ELECTRIC START 4 SPEED - 36'' MOWER LAWN TRACTOR

Caution:
Read and Follow All Safety Rules And Instructions Before Operating This Equipment

Assembly
Operation
Maintenance
Repair and Adjustment
Repair Parts

Sears, Roebuck and Co., Chicago, IL 60684 U.S.A. *109494X-5.19.87 Rev. 2*
Printed in U.S.A.

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SAFETY RULES

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See your Sears Authorized Service Center for spark arrester muffler parts number 677V1.

1. *Know the controls and how to stop quickly. READ THIS OPERATOR'S MANUAL and instructions furnished with attachments.*
2. *Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.*
3. *Do not carry passengers. Do not mow when children and others are around.*
4. *Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.*
5. *Keep your eyes and mind on your tractor, mower and the area being cut. Do not let other interests distract you.*
6. *Do not attempt to operate your tractor or mower when not in the drivers seat.*
7. *Always get on or off your tractor from the operator's left hand side.*
8. *Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.*
9. *Disengage all attachment clutches before attempting to start the engine.*
10. *Disengage power to attachments and stop the engine before leaving the operator's position.*
11. *Disengage power to mower, stop the engine and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment or repair. Be careful to avoid touching hot muffler or engine components.*
12. *Disengage power to attachments when transporting or not in use.*
13. *Take all possible precautions when leaving the vehicle unattended. Disengage the power-take-off, lower the attachments, shift into neutral, set the parking brake, stop the engine and remove the key.*
14. *Do not stop or start suddenly when going, uphill or downhill. Mow up and down the face of slopes (not greater than 15°); never across the face. Refer to page 47.*
15. *Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.*
16. *While going up or down slopes, place Gear Shift Control Lever in 1st gear position to negotiate the slope without stopping.*
17. *Never mow in wet or slippery grass, when traction is unsure or at a speed which could cause a skid.*
18. *Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.*
19. *Do not drive too close to creeks, ditches and public highways.*
20. *Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign objects.*
21. *Never shift gears until tractor comes to a stop.*
22. *Never place hands or feet under the mower, in discharge chute or near any moving parts while tractor or mower are running. Always keep clear of discharge chute.*
23. *Use care when pulling loads or using heavy equipment.*
    a. *Use only approved drawbar hitch points.*
    b. *Limit loads to those you can safely control.*
    c. *Do not turn sharply. Use care when backing.*
    d. *Use counterweight or wheel weights when suggested in the owner's manual.*
24. *Watch out for traffic when crossing or near roadways.*
25. *When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.*
26. *Handle gasoline with care - it is highly flammable.*
    a. *Use approved gasoline containers .*
    b. *Never remove the fuel cap of the fuel tank or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill tank indoors, always clean up spilled gasoline.*
    c. *Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine indoors.*
27. *Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working.*
28. *Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.*
29. *Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.*
30. *To reduce fire hazard, keep the engine free of grass, leaves or excessive grease. Do not clean product while engine is running.*
31. *Except for adjustments; DO NOT operate Engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such part could create a fire hazard.*
32. *Do not operate without a muffler or tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.*
33. *The vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.*
34. *Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.*
35. *When using the vehicle with mower, proceed as follows;*
    a. *Mow only in daylight or in good artificial light.*
    b. *Shut the engine off when unclogging chute.*
    c. *Check the blade mounting bolts for proper tightness at frequent intervals.*
36. *Do not operate the mower without the deflector shield in place.*
37. *Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.*
38. *Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.*

LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS -- ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

IMPORTANT: LOOK FOR THIS WORD TO POINT OUT IMPORTANT EQUIPMENT SAFETY PRECAUTIONS.

CONGRATULATIONS *on your purchase of a Sears 10 HP Lawn Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.*
Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Department. They have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your Tractor properly. Always observe the "SAFETY RULES".

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

SERIAL NUMBER _____

DATE OF PURCHASE _____

THE SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE FENDER.

YOU SHOULD RECORD THE SERIAL NUMBER AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

CUSTOMER RESPONSIBILITIES

Read and observe the safety rules. Always use care when using your tractor. Keep away from moving parts.
DO NOT work on your tractor with engine running. Always keep your tractor and mower clean.
Follow a regular schedule in maintaining, caring for and using your tractor. A well cared for tractor will run and last longer.
Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

LIMITED ONE YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For one year from date of purchase, when this riding equipment is maintained, lubricated, and tuned up according to the operating and maintenance instruction in the owner's manual, Sears will repair free of charge any defect in material or workmanship in this electric start riding equipment.

This warranty excludes blade(s), blade adapter(s), spark plug(s), air cleaner and belt(s), which are expendable and become worn during normal use.

This warranty does not cover:
- *Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass); and*
- *repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual; and*
- *riding equipment used for commercial or rental purposes.*

FULL 90-DAY WARRANTY ON BATTERY

For 90 days from the date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.
WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK and CO., D/698-731A, Sears Tower, Chicago, Il 60684

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Know Your Tractor

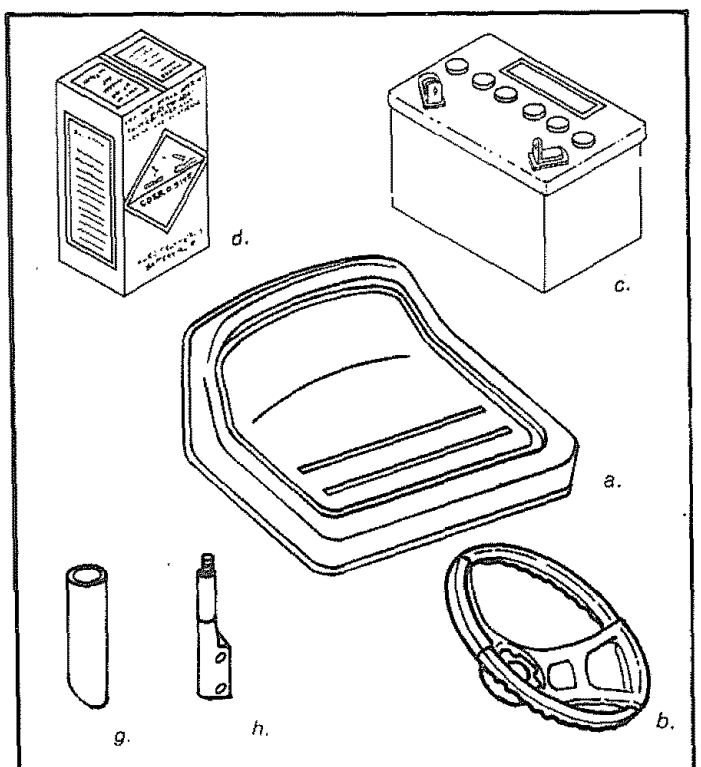
ASSEMBLY

READ THIS OWNER'S MANUAL BEFORE OPERATING YOUR LAWN TRACTOR. If you understand the machine and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your Lawn Tractor to familiarize yourself with the location of various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Lawn Tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all notes and cautions; they are included for your safety. Save this manual for future reference.

Unpacking Instructions

1. *Cut down four corners of the carton with a utility knife and fold down sides.*
2. *Remove items from carton. The box contains the items shown below.*
3. *Disengage Parking Brake.*
4. *Carefully guide the tractor off the skid. Be careful to avoid rolling tractor over staples in skid.*

The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tractor and while mowing. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

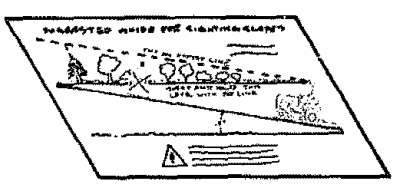


a. *seat*
b. *steering wheel*
c. *battery*
d. *battery acid*
e. *owner's manual*
f. *parts bag*
g. *steering sleeve*
h. *upper steering shaft*

Parts Bag Contents Not Shown Full Size:

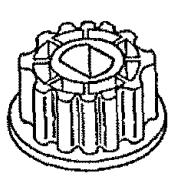
(2) Battery Carriage Bolts - 1/4 - 20 x 7 - 1/2

Terminal Guard

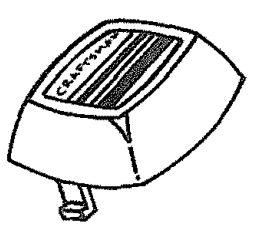


15° Slope Instruction Sheet

(2) Keys

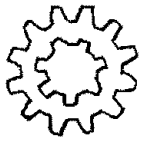
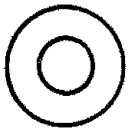
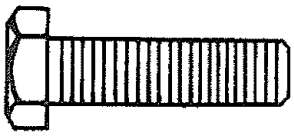
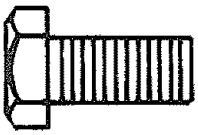
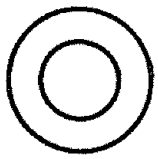
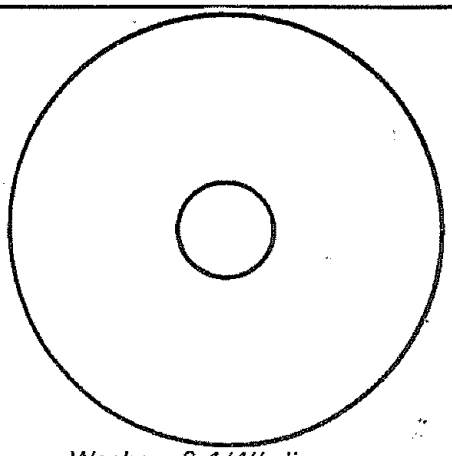
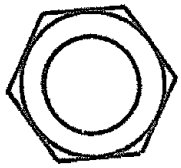


Steering Wheel Adapter



Steering Wheel Insert

ASSEMBLY

ASSEMBLY LOCATION	PARTS BAG CONTENTS SHOWN FULL SIZE
BATTERY	 (2) Lockwasher, 1/4 Int/Ext Tooth (2) Wing Nut - 1/4 - 20
BATTERY TERMINALS	(2) Hex Bolt, 1/4 - 20 x 3/4  (2) Washer 9/32 x 5/8 x 16 Ga. (2) Lockwasher 1/4 (2) Hex Nut, 1/4 - 20
STEERING SHAFT	 (2) Hex Bolt, 3/8 - 16 x 1 - 1/4 (2) Locknut, 3/8 - 16
SEAT	 (2) Hex Bolt, 3/8 - 16 x 3/4 (2) Lockwasher, 3/8  (2) Washer 13/32 x 3/4 x 12 Ga.
STEERING WHEEL	 Washer, 2 1/4'' dia.  Locknut, 1/2-20

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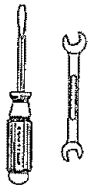
ASSEMBLY

To assemble your tractor you will need:



(2) 7/16" wrenches *Tire Pressure Gauge*
(2) 9/16" wrenches *Utility Knife*
(1) 3/4" wrench

NOTE: RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON THE TRACTOR.

WEAR EYE AND FACE SHIELD.

WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH BATTERY ACID.

DO NOT SMOKE, FUMES FROM CHARGED BATTERY ACID ARE EXPLOSIVE.

READ THE INSTRUCTIONS INCLUDED WITH THE BATTERY ACID CONTAINER. ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

1. *Prepare Battery*

a. *Fill and charge battery (before installing).* NOTE: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY.

b. *Remove and discard the tape seal covering battery tube. DO NOT REUSE.*

c. *Fill each cell with battery acid. Add the acid until it reaches the bottom of the battery tube (Fig. 1). Do not add the acid beyond this level or the additional acid can come out when the battery is charged.*

d. *After cells are filled, tilt battery from side to side to release air bubbles.*

e. *Allow battery to stand and settle for at least thirty minutes. If the level of acid falls below the point described in step (c), add more acid until the correct level is reached.* NOTE: UNEVEN FILLING OF CELLS WILL AFFECT THE BATTERY CAPACITY AND LIFE. *Install the vent caps to cover the battery tube. Wash the top of the battery with water to remove any acid, then wipe dry.*

f. *Check battery case for leakage to make sure that no damage has occurred in handling.*

g. *Neutralize excess battery acid for disposal by adding it to four inches of water in a five gallon plastic container, Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.*

h. *Use a 12 volt battery charger. Charge battery at a rate of 6 amperes for 1 hour.* NOTE: OBSERVE ALL SAFETY PRECAUTIONS REQUIRED FOR BATTERY CHARGING. *Check the acid level after the battery is charged. If the acid has fallen below the correct level, add only distilled water.*

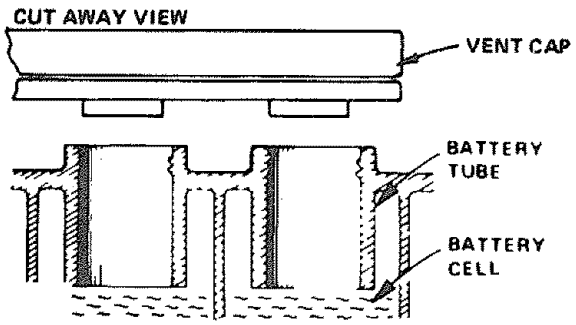


FIGURE 1

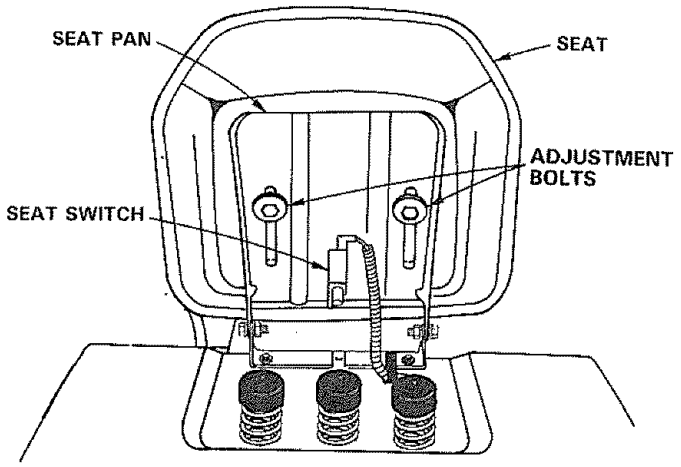


FIGURE 2

2. *Install Seat*

a. *Place seat on seat pan. Screw adjustment bolts, lockwashers and flat washers into seat (Fig. 2). Adjustment bolts, lockwashers and flat washers found in bag of parts. Tighten finger tight.*

b. *Place seat in operating position. Sit on the seat and press clutch-brake pedal all the way down. If operating position is not comfortable, adjust Seat.*

c. *Raise seat. Loosen adjustment bolts (Fig. 2). When adjusted for comfortable operation, tighten adjustment bolts securely with 9/16" wrench.*

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ASSEMBLY

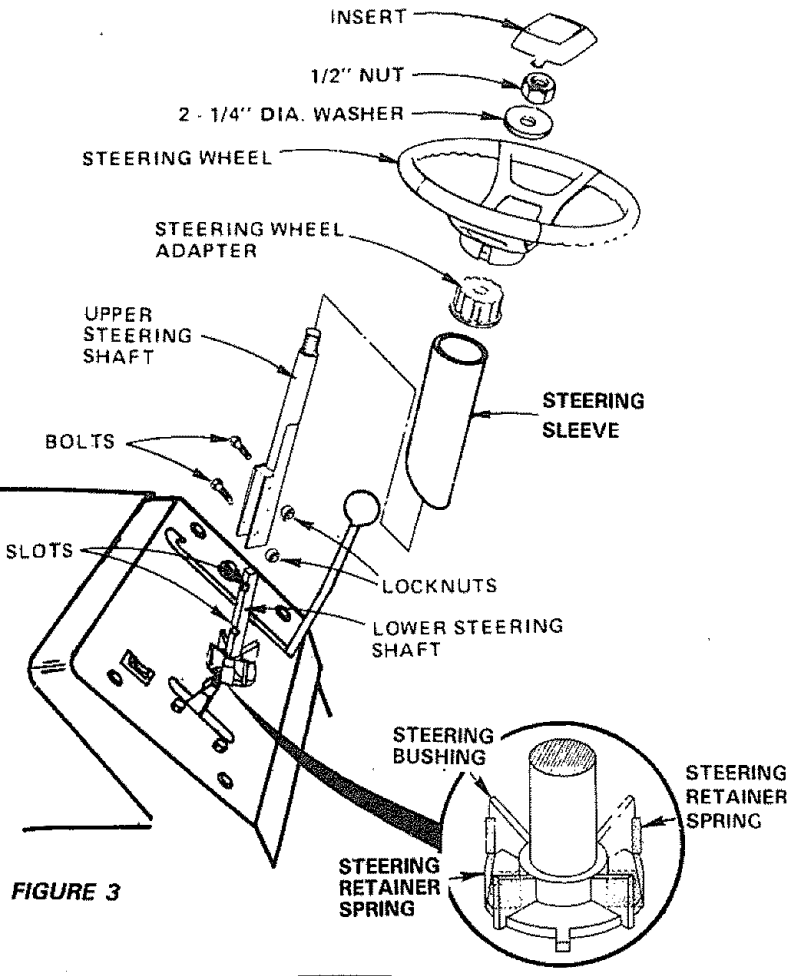


FIGURE 3

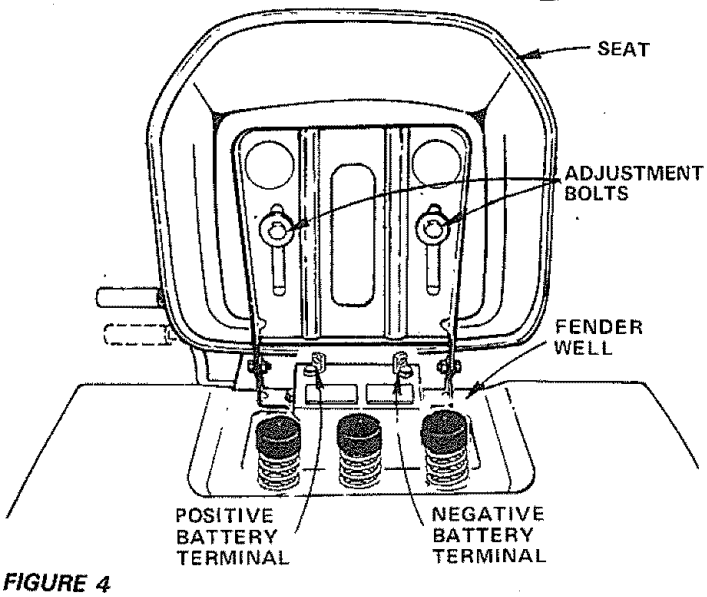


FIGURE 4

3. *Install Steering Wheel*

a. Slide upper steering shaft over lower steering shaft until bolt holes line up with slots in lower steering shaft (Fig 3).

b. Use two hex bolts 3/8 - 16 x 1-1/4 and two locknuts 3/8 - 16 to retain upper steering shaft to lower steering shaft. Tighten securely.

c. Position sleeve over steering shaft assembly.

d. For easier assembly, tilt sleeve towards front of tractor.

e. Place bottom of sleeve over two front prongs on steering bushing.

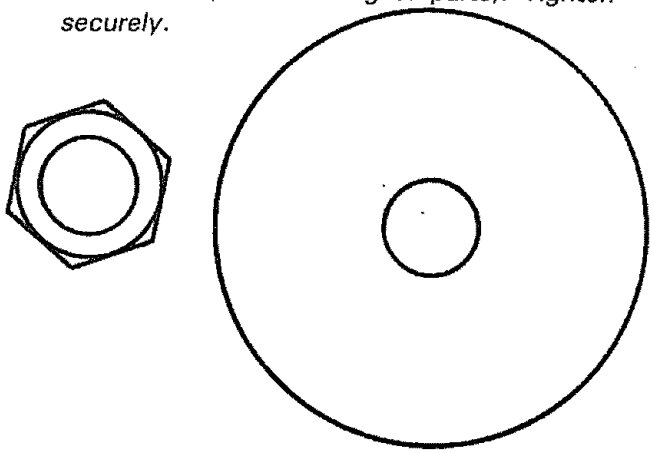
f. Squeeze the two steering sleeve retainers inward to allow sleeve to pass over retainers.

g. Push sleeve down aligning notch on sleeve with tab on steering bushing.

h. Place steering wheel adapter on upper steering shaft.

i. With front wheels pointed straight ahead, place steering wheel on steering wheel adapter. Bars of steering wheel should point straight across tractor.

j. Place 2 - 1/4" diameter washer on upper steering shaft and install a 1/2" locknut shown full size below (found in bag of parts). Tighten securely.



k. Snap insert into steering wheel.

l. Remove plastic on tractor hood.

4. *Check Tires*

Reduce tire pressure to 14 PSI in front tires and 12 PSI in rear tires. (Tires were overinflated for shipping purposes).

5. *Install Battery*

DO NOT SHORT BATTERY TERMINALS

BEFORE INSTALLING BATTERY, REMOVE METAL BRACLETS, WRISTWATCH BANDS, RINGS, ETC. FROM YOUR PERSON.

a. Lift seat (Fig. 4).

b. Lower battery into fender well with battery terminals toward front of tractor (Fig. 4). Make sure battery rests in battery tray (Fig. 6).

NOTE: BE SURE BATTERY DRAIN TUBE IS SECURELY ATTACHED TO BATTERY TRAY DRAIN.

POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.

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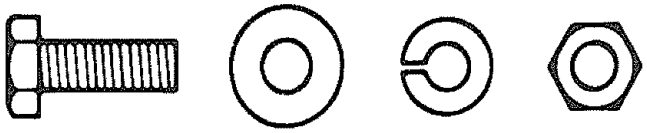
c. Connect RED *battery cable to positive (+) battery terminal with hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 6). Tighten securely with two 7/16" wrenches.*

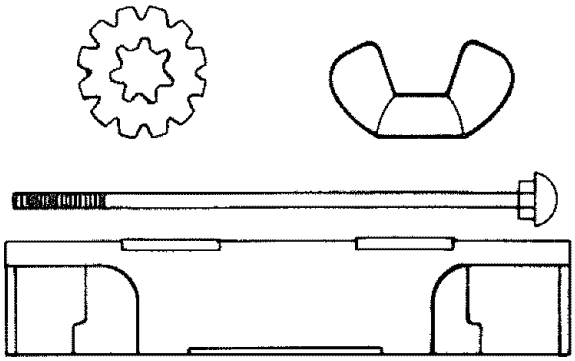
d. Connect BLACK *ground cable to negative (−) battery terminal with remaining hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 6). Tighten securely.*



NOTE: IF YOU HAVE A WEAK BATTERY, SEE "STARTING YOUR TRACTOR WITH A WEAK BATTERY" (PAGE 20).

e. Using the slot on one side of the battery support (Fig. 7) slide battery bolt into frame slot (head of bolt down). Fasten the battery bolt to the terminal guard using int./ext. lockwasher, wing nut. as shown in Fig. 7.

f. Assemble the remaining battery bolt to other side of battery support and fasten terminal guard to it with remaining int./ext. lockwasher and wing nut. Tighten wing nuts securely by hand (Fig. 7).



NOTE: USE TERMINAL ACCESS DOORS (FIG. 7) FOR:
1. INSPECTION FOR SECURE CONNECTIONS (TIGHTEN HARDWARE)
2. INSPECTION FOR CORROSION
3. TESTING BATTERY
4. JUMPING (IF REQUIRED)
5. CHARGING (IF REQUIRED)

KEEP TERMINAL DOORS CLOSED WHEN NOT IN USE.

NOTE: DO NOT START ENGINE UNTIL INITIAL SERVICE HAS BEEN PERFORMED.

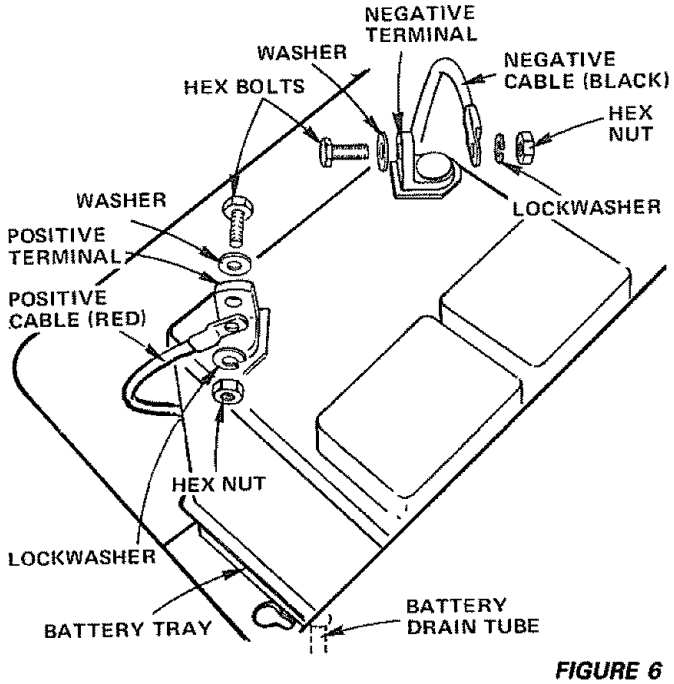


FIGURE 6

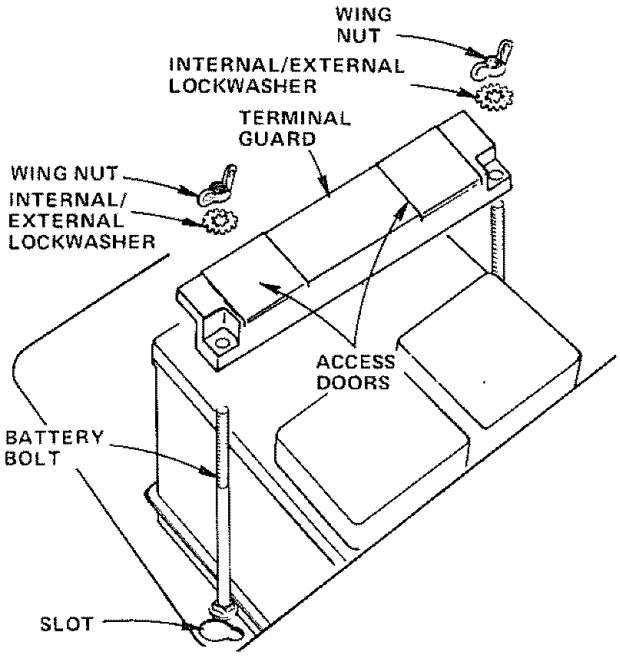


FIGURE 7

ASSEMBLY

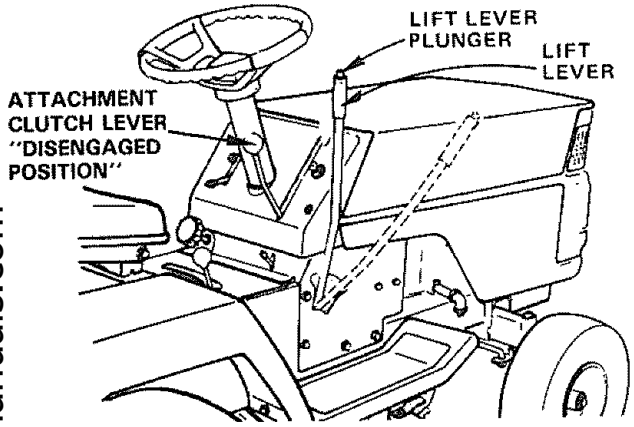


FIGURE 8

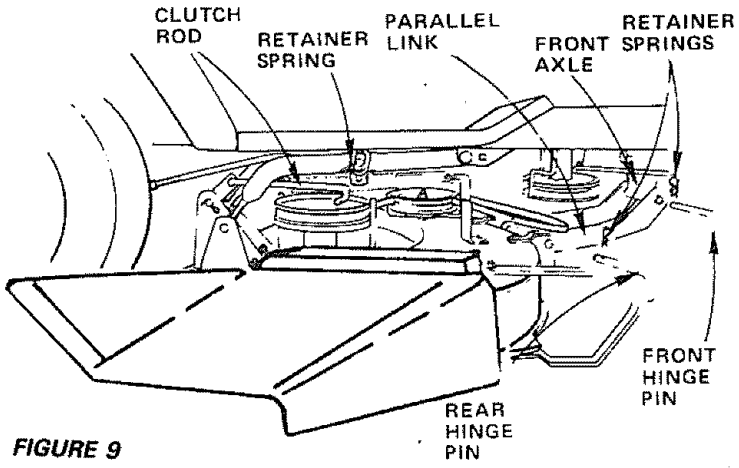


FIGURE 9

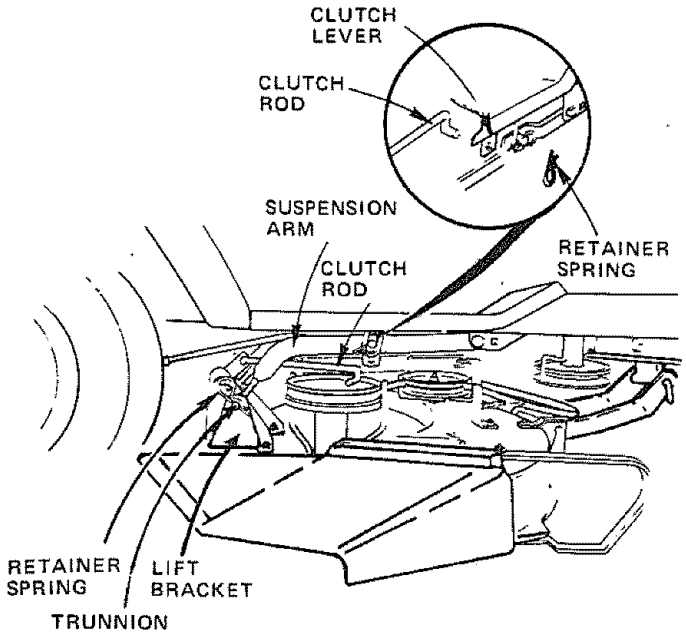


FIGURE 10

6. Mower Installation

a. Your 36" Mower Installs without the use of tools. Raise lift Lever (Fig.8) to its highest position.

b. Turn height adjustment knob to lowest position (Fig. 11).

c. Slide mower under tractor, discharge guard to R.H. side,

d. Install front hinge pin through axle and parallel link (Fig. 9). Secure with retainer spring.

e. Install front hinge pin through mower lift brackets and parallel link (Fig. 9). Secure with retainer spring.

f. Install clutch rod in clutch lever (Fig. 10 - Inset). NOTE: INSTALL RETAINER SPRING FROM THE BOTTOM OF CLUTCH ROD TO AVOID INTERFERENCE WITH MOWER DRIVE BELT.

g. Move lift lever (Fig. 8) forward to lower suspension arms. Slide trunnions through lift brackets holes and secure with retainer spring (Fig. 10).

h. Roll belt over mower drive pulley. Make sure belt is inside belt guides (Fig. 11). See mower belt installation decal on mower housing.

i. Use lift lever (Fig. 8) to raise mower.

j. Turn height adjustment knob clockwise (↷) to the middle of it's travel.

7. Mower Drive Belt Installation

NOTE: MOWER BELT INSTALLATION DECAL LOCATED ON MOWER HOUSING.

REPLACE ONLY WITH THE BELTS SPECIFIED IN THIS MANUAL.

a. Place attachment clutch lever in "DISENGAGED" position (Fig. 8).

b. Turn height adjustment knob to lowest position. Move mower lift lever (Fig. 8) forward to lower mower to its lowest position.

c. Roll belt off engine pulley (Fig. 12).

d. Pull belt off both mandrels.

e. Spring belt guide away from idler pulley and pull belt off idler pulley.

f. Slide belt from under extension spring.

8. Mower Drive Belt Replacement

a. Slide belt under extension spring (Fig. 12).

b. Place belt on rear side of both mandrels.

c. Spring idler belt guide down and place belt around rear side of idler pulley.

d. Roll belt over engine pulley.

e. Make sure belt is inside all belt guides.

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9. Final Assembly

a. Make sure all fasteners are tight.

b. Read and follow the operation instructions (page 12). Know the location and purpose of all controls.

c. Check oil and gasoline (page 13) before starting the tractor.

10. Check the Cutting Level

The blade housing was set at the factory to cut level. After mowing a short distance, look at the area that was cut. If the blade housing cuts uneven; see the instructions on "Side-toSide and Front-to-Rear Mower Adjustment" (page 22).

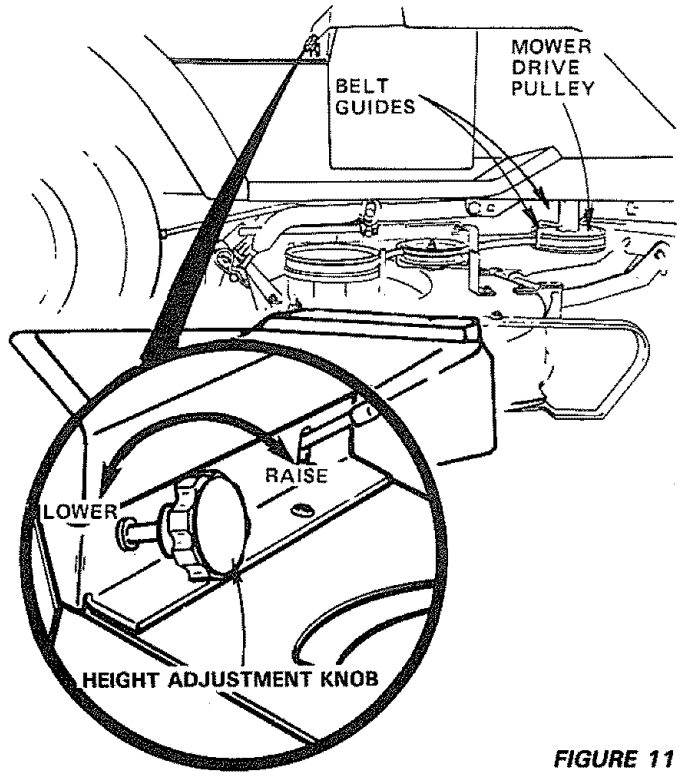

FIGURE 11

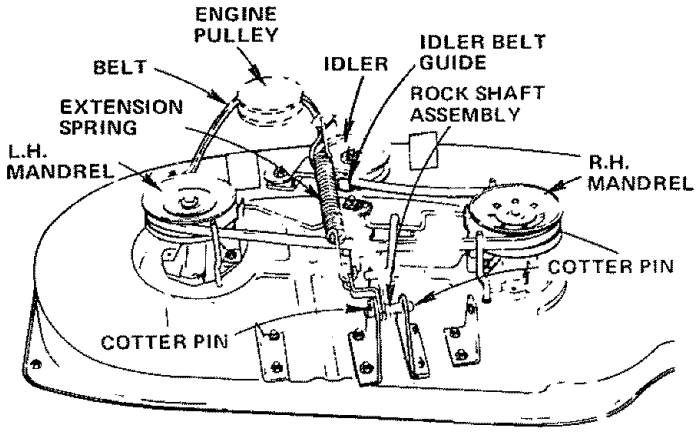

FIGURE 12

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OPERATION

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL BEFORE OPERATING YOUR LAWN TRACTOR. If you understand the machine and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your Lawn Tractor to familiarize yourself with the location of various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Lawn Tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all notes and cautions; they are included for your safety. Save this manual for future reference.

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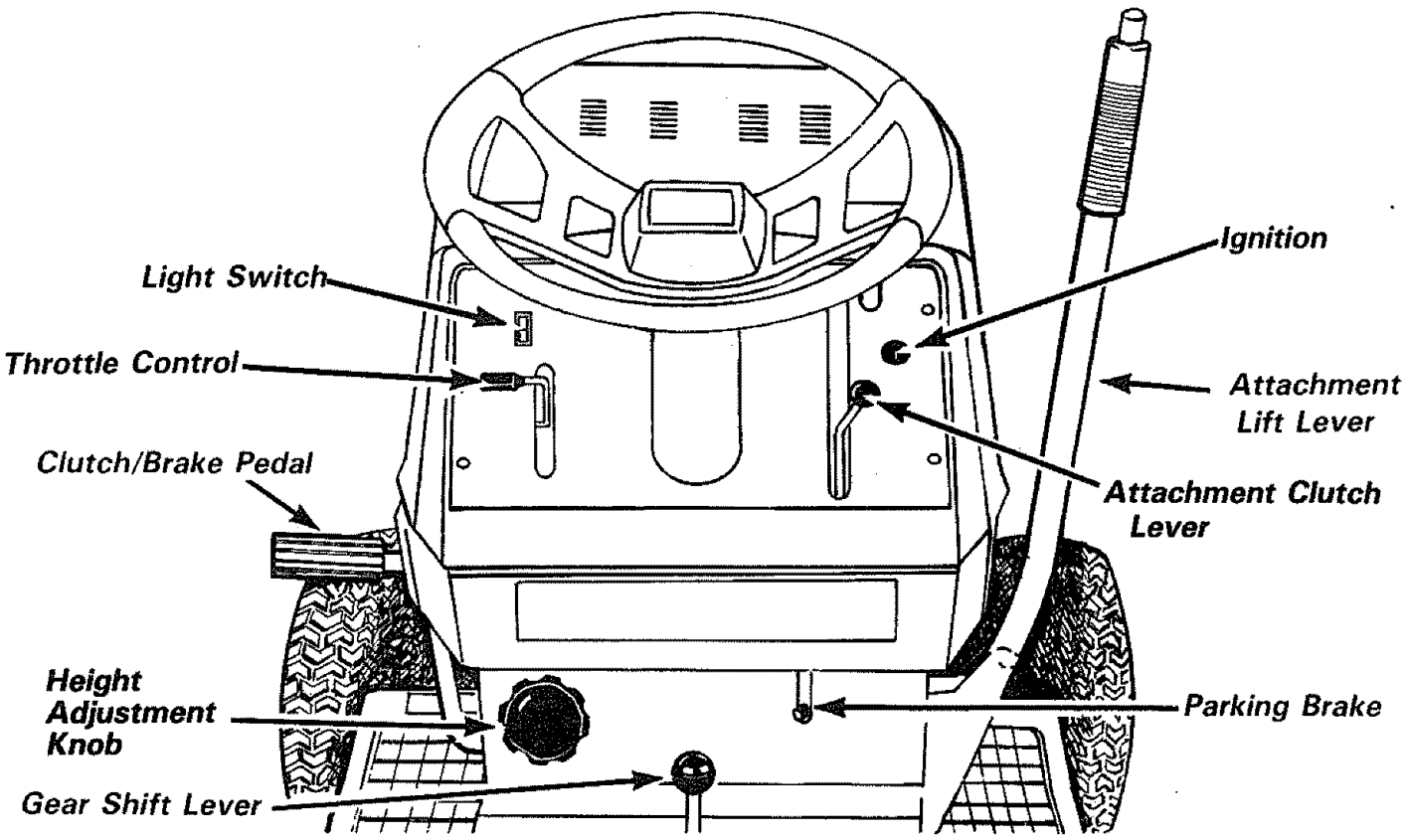

ATTACHMENT CLUTCH LEVER: *Push lever up and over to engage mower. There will be an engine hesitation as the clutch engages.*

ATTACHMENT LIFT LEVER: *Use the attachment lift lever to raise and lower the attachment mounted to your tractor. Move the lift lever forward to lower attachment.*

CLUTCH/BRAKE PEDAL: *The pedal has 2 functions; a clutch and a brake. To engage the brake push the pedal completely.*

HEIGHT ADJUSTMENT KNOB: *Use the height adjustment knob to adjust the mower height. With the attachment lift lever in the "up" position, turn knob clockwise (↷) to raise cutting height and counterclockwise (↶) to lower cutting height. Lower lift lever.*

GEARSHIFT: *Press the clutch/brake pedal down firmly and move gear shift lever to desired speed.*

IGNITION: *Place key in ignition and turn to the right to start.*

LIGHT SWITCH: *Turns on and off the headlights.*

PARKING BRAKE: *To set the parking brake, push the clutch/brake pedal completely forward. Place the parking brake lever in "Engaged" position and release pressure from pedal. Clutch/brake pedal will remain in brake position.*

THROTTLE CONTROL: *Use the throttle control to increase or decrease the speed of the engine.*

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OPERATION

1. Stopping Your Tractor

NOTE: REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.

a. Push clutch-brake pedal into full "BRAKE" position.

b. Place parking brake in "ENGAGED" position and release pressure from clutch/brake. Pedal should remain in "BRAKE" position. NOTE: MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

c. Move gear shift lever to "NEUTRAL" position.

d. Place attachment clutch lever in "DISENGAGED" position.

e. Move throttle control to "S" (slow) position.

f. Turn ignition key to "OFF" position. Never use choke to stop engine.

2. Starting The Engine

LEARN TO START, STOP AND REVERSE YOUR TRACTOR IN A LARGE, OPEN AREA.

NOTE: TRACTOR MUST HAVE FOOT PEDAL DEPRESSED AND CLUTCH LEVER IN "DISENGAGED" POSITION BEFORE TRACTOR WILL START.

a. This engine has been shipped filled with summer weight oil (For cold weather operation see chart page 16). Check engine oil level with tractor on level ground. Remove and wipe dipstick (Fig. 13) clean, screw it in tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached.

b. Fill fuel tank (Fig. 13). Use fresh, clean, regular unleaded automotive gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Capacity is 5 guarts.

WARNING: DO NOT USE PREMIUM UNLEADED. *This type fuel reacts with water content in the fuel and tends to form strong acids which can corrode metal parts and harm rubber and plastics.*

FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL. DO NOT STORE, SPILL OR USE GASOLINE NEAR AN OPEN FLAME.

c. Place attachment clutch lever in "disengaged" position. (Fig. 14).

d. Push clutch/brake pedal fully into brake position (Fig. 14).

e. Place gear shift lever in "NEUTRAL" positon (Fig. 14).

f. Move throttle control lever (Fig. 14) to "FAST" detent, then to the right and upward for "CHOKE" position. At the "FAST" position the lever has a stop. The stop is provided so that you will know when you are at full throttle "FAST" position and prevent over travel into choke position.

g. Turn ignition key clockwise (↷) to "START" position and release key as soon as engine starts (Fig. 14).

NOTE: IF YOU HAVE A WEAK BATTERY, SEE "STARTING YOUR TRACTOR WITH A WEAK BATTERY", (PAGE 20).

h. Immediately move throttle control lever mid-way between "FAST" and "SLOW" positions.

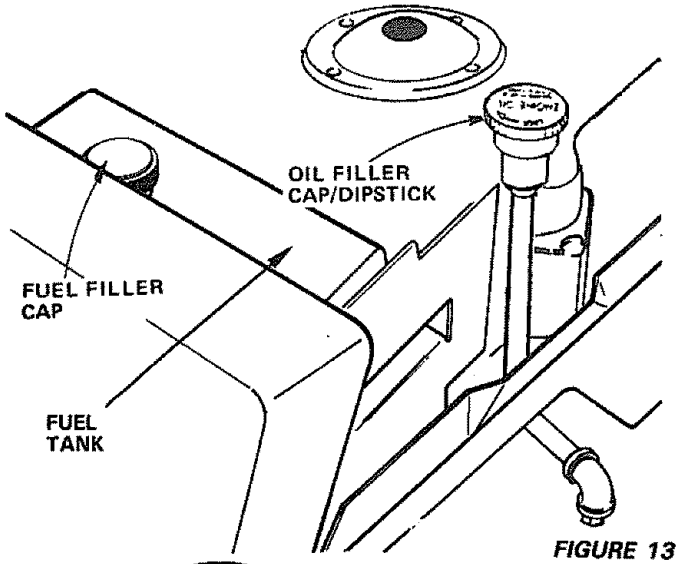

FIGURE 13

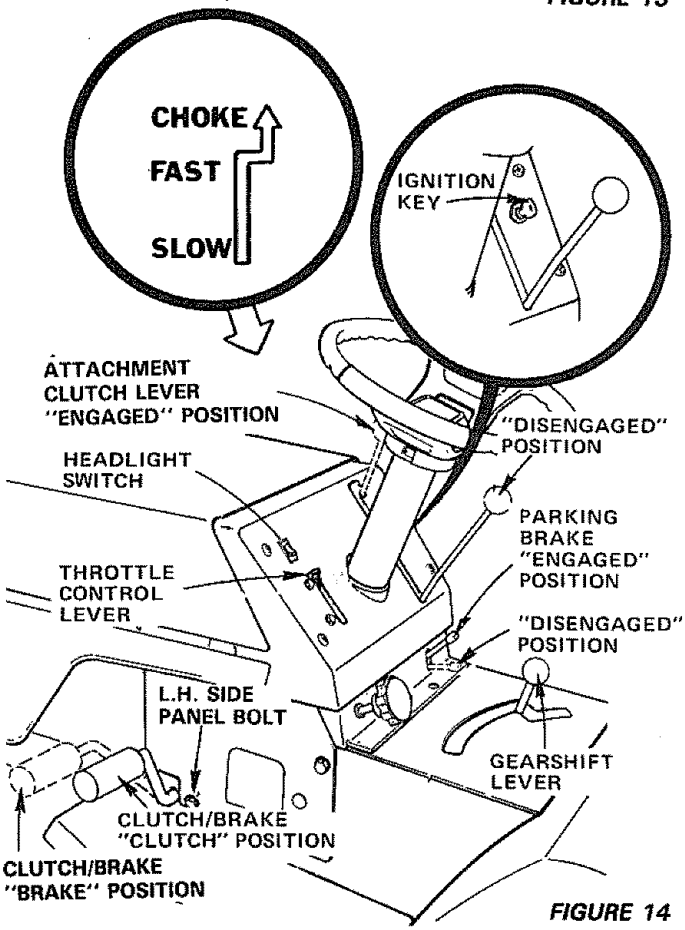

FIGURE 14

NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN FIFTEEN SECONDS PER MINUTE.

i. If engine does not start after several attempts, move throttle control lever mid-way between "FAST" and "SLOW" positions, wait a few minutes and try again.

NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

ALWAYS WEAR SUBSTANTIAL FOOTWEAR AND AVOID LOOSE FITTING CLOTHING THAT COULD GET CAUGHT IN MOVING PARTS.

OPERATION

FUNCTION	GEARSHIFT	THROTTLE
Normal Mowing	2 or 3	FAST
Heavy Mowing	1 or 2	
Snow Blowing	1	
Snow Blade	2	SLOW-FAST
Transport	4-6	

FIGURE 16

THIS TRACTOR IS EQUIPPED WITH INTERLOCK SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH LEVER IS IN THE "ENGAGED" POSITION AND/OR THE FOOT PEDAL IS NOT FULLY DEPRESSED. IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES.

READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.

THE MOWER MUST BE ADJUSTED PROPERLY FROM FRONT TO REAR AND LEVELED FROM SIDE TO SIDE BEFORE OPERATING. THIS IS NECESSARY FOR LEVEL AND EFFICIENT MOWING. REFER TO PAGE 22.

IMPORTANT: DO NOT ADD ADDITIONAL WEIGHT TO THE TRACTOR OTHER THAN THE OPTIONAL WHEEL WEIGHTS. EXCESSIVE WEIGHT MAY OVERLOAD AND DAMAGE THE TRANSMISSION.

3. Operating Your Tractor and Mower

NOTE: THIS TRACTOR IS EQUIPPED WITH AN OPERATOR PRESENCE SENSING SWITCH. ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND THE ATTACHMENT CLUTCH ENGAGED WILL SHUT OFF THE ENGINE.

CAUTION
TO AVOID INJURY

1. *Read owner's manual.*
2. *Know the location and function of all controls.*
3. *Keep guards, safety shields and switches in place and working.*
4. *Remove objects that can be thrown by blades.*
5. *Do not mow when children and other are around.*
6. *Never carry children or passengers.*
7. *Always look behind machine before backing.*
8. *Do not mow where machine can tip or slip.*
9. *If machine stops going uphill, stop blade and back slowly down.*
10. *Be sure blades and engine have stopped before placing hands or feet near the blades.*
11. *Remove key when leaving machine.*

MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTCHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS RUNNING.

NOTE: ALWAYS OPERATE ENGINE AT FULL THROTTLE WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE, LONG ENGINE LIFE AND PROPER DISCHARGE OF CUT MATERIAL. REGULATE GROUND SPEED BY SELECTING A LOW ENOUGH GEAR (FIG. 15) TO GIVE THE MOWER CUTTING PERFORMANCE PLUS QUALITY OF CUT DESIRED.

DO NOT OPERATE THE MOWER WITHOUT THE DEFLECTOR SHIELD (DISCHARGE GUARD) IN PLACE.

a. Select desired height of cut position using height adjustment knob (page 12).
b. Raise lift lever and place attachment clutch lever in disengaged position.
c. Start engine (page 13).
d. With engine running and warm place throttle control midway between "S" (slow) and "F" (fast) position.
e. Engage mower with the attachment clutch lever. NOTE: "ENGAGE" OR "DISENGAGE" MOWER BLADE CLUTCH LEVER SLOWLY.
f. Move gear shift lever to desired gear.
g. Lower mower into cutting position using attachment lift lever.
h. Release clutch/brake pedal to start movement (Fig. 15).
i. Move throttle control to "F" (Fast) postion.

NOTE: SELECT A GROUND SPEED THAT WILL SUIT THE TERRAIN, QUALITY OF CUT AND ATTACHMENT BEING USED (See Chart above).

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4. Mowing Tips

NOTE: TIRE CHAINS CANNOT BE USED WITH THE MOWER ATTACHED.

READ THE "SAFETY RULES" CAREFULLY BEFORE OPERATING YOUR MOWER. REFER TO PAGE 2.

a. Use the runner on the R.H. side as a guide; the blade cuts approximately an inch outside the runner (Fig. 17).

b. Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.

c. When mowing large areas (Fig. 18), start by turning to the right so that the clippings will discharge away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction making left hand turns until finished.

d. If grass is extremely tall, it should be mowed twice. The first time relatively high. The second time to the desired height.

e. The left hand side of mower should be used for trimming.

5. Operating The Tractor On Hills

a. Move gear shift lever to "1ST" gear before starting up or down hills.
b. AVOID STOPPING OR SHIFTING ON HILLS.
c. If slowing is necessary, move throttle control lever to slower position.

LEAVE ENOUGH ROOM WHEN STOPPING AND STARTING TO ALLOW SLIGHT TRACTOR ROLL DOWNHILL AS CLUTCH-BRAKE PEDAL MOVES THROUGH CLUTCH POSITION.

d. If stopping is absolutely necessary, push clutch-brake pedal quickly to brake position and engage parking brake.
e. To restart tractor movement, make sure tractor is in the lowest speed range ("1ST" Gear) and that you have allowed room to roll slightly downhill. Depress clutch-brake fully. Disengaged parking brake and release clutch-brake pedal SLOWLY to start tractor movement.
f. Make all turns gradually.

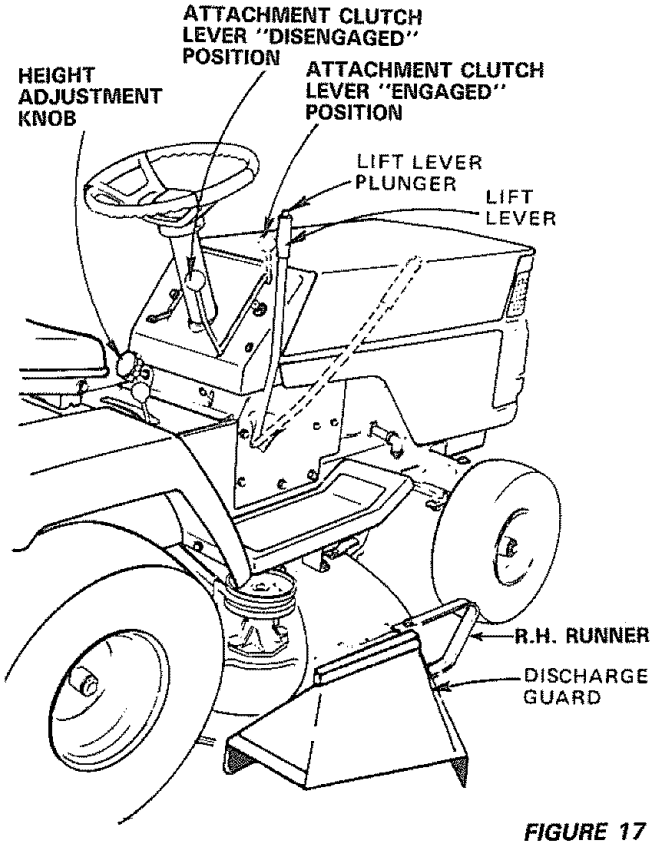

FIGURE 17

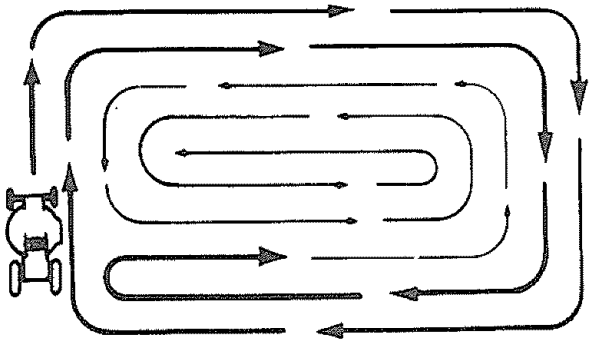

FIGURE 18

6. Flip-Up Discharge Guard.
Your mower has a flip-up discharge guard (Fig. 17) for door or gate clearance when held in raised position.

MAKE SURE ATTACHMENT CLUTCH LEVER IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD (DEFLECTOR). NEVER OPERATE MOWER WITHOUT DISCHARGE GUARD IN OPERATING POSITION.

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MAINTENANCE

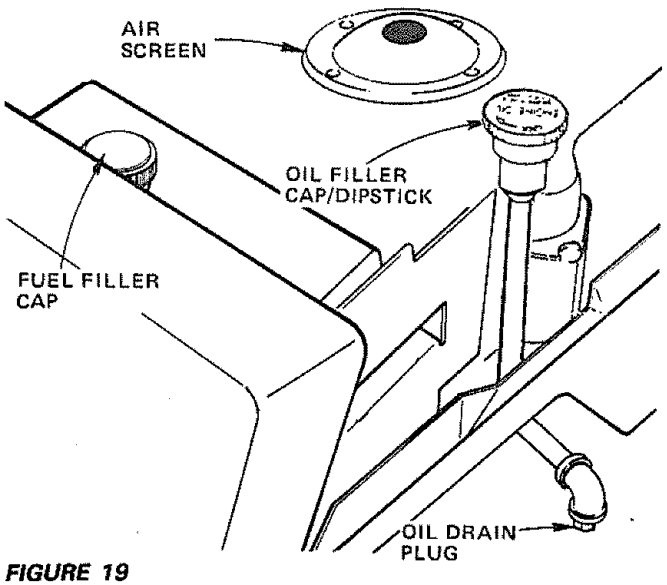


FIGURE 19

To keep your tractor running better, longer, perform necessary service using the following maintenance schedule:

BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR:

1. **PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.**
2. **MOVE GEAR SHIFT CONTROL LEVER TO NEUTRAL POSTION.**
3. **PLACE PARKING BRAKE IN "ENGAGED" POSITION.**
4. **DISENGAGE ATTACHMENT CLUTCH LEVER.**
5. **SHUT OFF THE ENGINE.**
6. **MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.**
7. **DISCONNECT THE SPARK PLUG WIRE(S) FROM THE SPARK PLUG(S) AND KEEP WIRE(S) AWAY FROM THE SPARK PLUG(S) TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.**

With Every Mowing

1. *Make sure all nuts on bolts are tight and cotter pins and retainer springs are secure.*
2. *Observe all safety precautions.*
3. *Keep tractor well lubricated (refer to page 18).*

First 2 Hours (Two Mowings)

1. Change Engine Oil

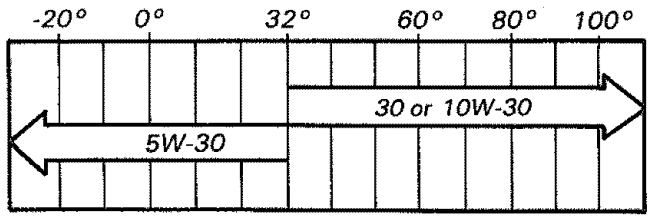
Changing oil after the first two hours (or two mowings) will help eliminate break-in residue which might be damaging to your engine.

NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHANGING OIL.

a. Drain oil with engine warm.
b. Unscrew oil drain plug (Fig. 19) and remove dipstick.
c. Catch oil in a suitable container.
d. Replace plug.
e. Refill engine oil (See below). Refill capacity is 1 quart. NOTE: DO NOT OVERFILL.

Recommended SAE Viscosity Grades

Temperature range expected before next oil change. All oil must meet A.P.I. service classification SD, SE or SF.



Capacity is 1 quart. NOTE: DO NOT OVERFILL. *Dipstick assembly must be securely tightened into tube at all times when engine is operating.*

IMPORTANT: TO AVOID DAMAGE TO THE STARTING SYSTEM, USE SAE 5W30 OIL WHEN THE TEMPERTURE FALLS BELOW 32°.

f. Replace dipstick.

Every 5 Hours (Five Mowings)

1. Check Engine Oil Level

DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.

Several minutes after stopping engine, check engine oil level with tractor on level ground. Wipe dipstick (Fig. 19) clean, screw it down tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached. (See chart above). NOTE: DO NOT OVERFILL.

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MAINTENANCE

Every 25 Hours (Twice a Mowing Season)

1. Brake Adjustment

This tractor is equipped with an adjustable brake system mounted on the right side of the transaxle (Fig. 20).

IF TRACTOR REQUIRES MORE THAN SIX FEET STOPPING DISTANCE IN HIGHEST GEAR, THEN BRAKE MUST BE ADJUSTED.

a. Depress clutch/brake pedal and engage parking brake.

b. Measure distance between brake operating arm and nut "A" on brake rod.

c. If distance is other than 1-1/2", disengage parking brake, loosen jam nut (Fig. 20) and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against Nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary.

2. Tire Care

Maintain tire pressure in front at 14 PSI and rear tires at 12 PSI.

3. Blade Sharpening

For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file or on a grinding wheel. We suggest they be sharpened after every 25 hours of mowing. Do not attempt to sharpen while on mower.

a. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.

b. To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of clean blade over the head of the nail (Fig. 21). NOTE: PLACE CENTER HOLE OF BLADE ON NAIL. IF BLADE IS PROPERLY BALANCED, BLADE SHOULD REMAIN IN POSITION SHOWN IN FIG. 21. IF EITHER END OF THE BLADE MOVES DOWNWARD, BLADE IS NOT BALANCED. SHARPEN THE HEAVY END UNTIL BLADE IS BALANCED.

Every 50 Hours (Once a Mowing Season)

(Operating in dusty conditions may require more frequent servicing.)

1. Check Battery

a. Battery acid level in each battery cell should be even with bottoms of tubes in cells (Fig. 22). Add ONLY distilled water if necessary. NOTE: DO NOT OVERFILL.

b. Keep battery and terminals clean.

c. Keep battery bolts tight.

d. Keep vent caps tight and small vent holes in caps open.

e. Recharge at 6 amperes for 1 hour if necessary.

2. Clean Battery and Terminals

Corrosion and dirt on battery and terminals cause the battery to "leak" power.

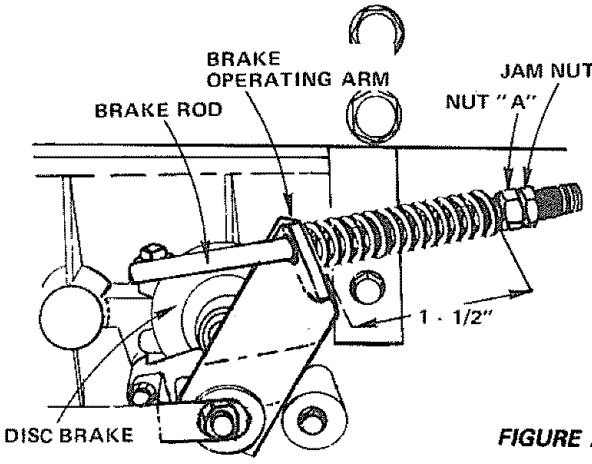


FIGURE 20

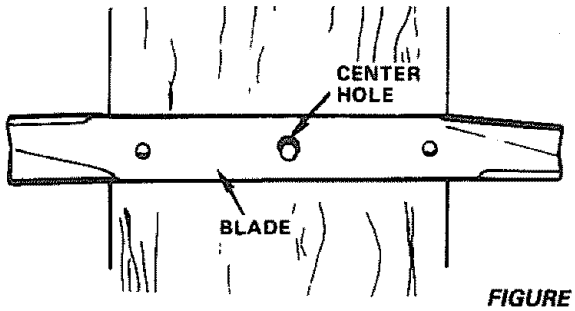


FIGURE 21

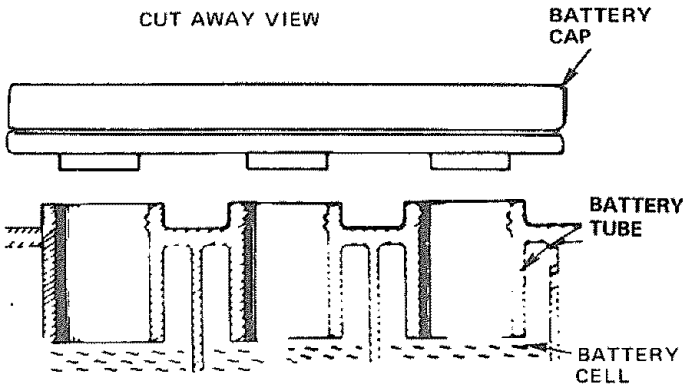


FIGURE 22

LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD YOUR EYES AROUND BATTERIES.

a. Remove terminal guard.

b. Disconnect BLACK battery cable then RED battery cable and remove battery from tractor.

c. Wash battery with four tablespoons of baking soda to one gallon of water.
NOTE: BE CAREFUL NOT TO GET THE SODA SOLUTION INTO THE CELLS.

d. Rinse the battery with plain water, dry and reinstall on tractor.

e. Clean terminals and cable ends with a wire brush until bright.

f. Replace battery cables, connecting RED battery cable to positive terminal first, then BLACK battery cable to negative terminal, coat terminal connections with vasoline.

g. Replace terminal guard.

MAINTENANCE

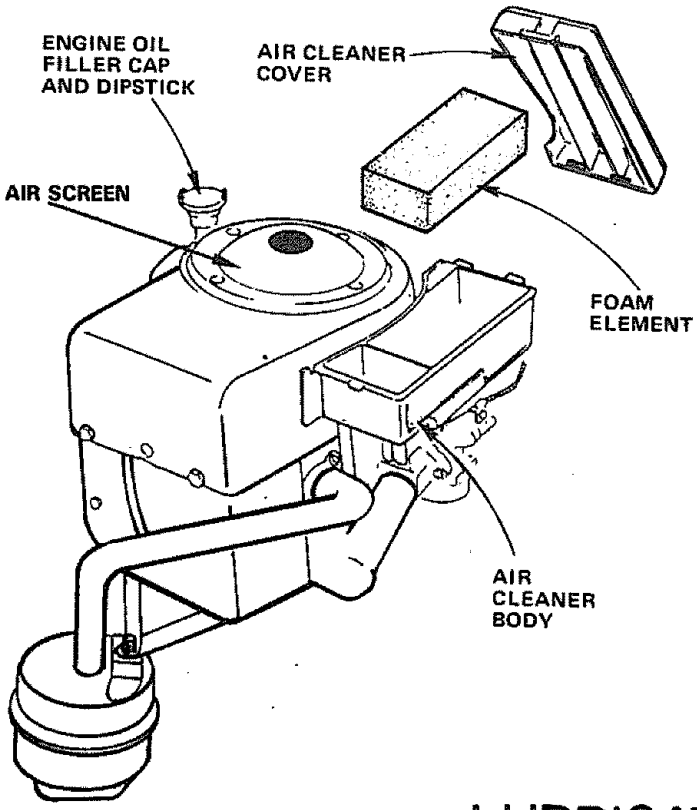


FIGURE 23

3. Change Engine Oil

The best time to change engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot oil. See oil chart, page16.

4. Clean Air Cleaner Element (Fig. 23)

a. Open hood.
b. Snap off air cleaner cover.
c. Remove foam element from air cleaner body.
d. Wash foam element in liquid detergent and water to remove dirt.
e. Wrap foam element in cloth and squeeze dry.
f. Saturate foam in clean engine oil. Squeeze to remove excess oil.
g. Replace foam element and snap cover on air cleaner body.

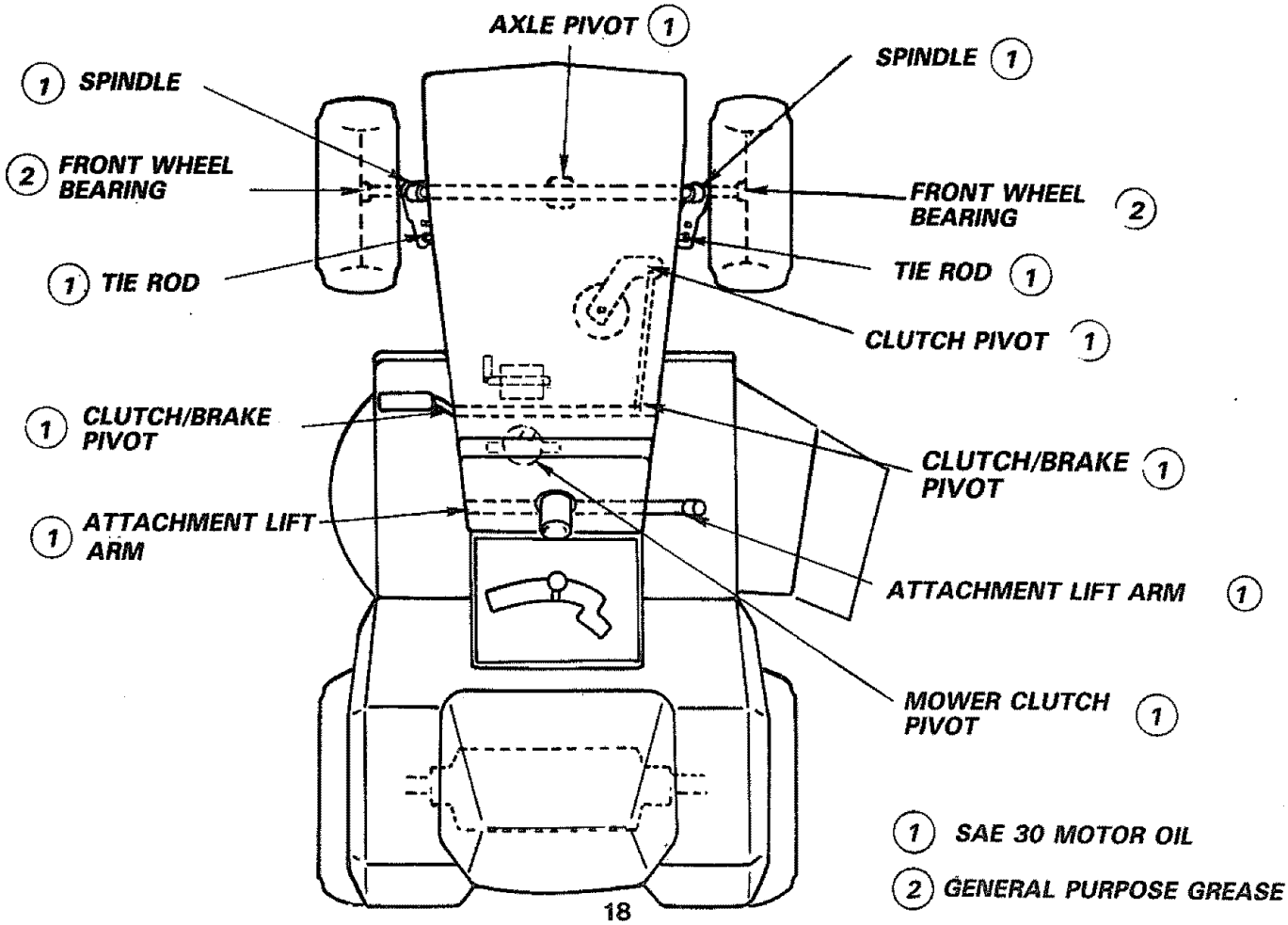
NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

5. Lubricate Pivot Points

Place several drops of S.A.E. 30 oil at points where parts move against each other, especially:

a. Front axle pivot
b. Hood Hinge
c. Foot pedal shaft (both ends)

LUBRICATION CHART



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6. *Clean Air Screen*
Air screen (Fig. 23) must be kept free of dirt and chaff to prevent engine damage from overheating.

7. *Check Muffler*
Inspect and replace damaged muffler as it could create a fire hazard and/or damage.

DO NOT TOUCH HOT MUFFLER, CYLINDER OR FINS AS CONTACT MAY CAUSE BURNS.

Every 100 Hours (Every Two Years)

DISCONNECT SPARK PLUG WIRE(S) TO PREVENT ACCIDENTIAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR). BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

1. *Replace Spark Plug(s)*

Replace spark plug(s) at the beginning of each mowing season or every 100 hours, whichever comes first. Gap should be set at 0.30 inch (Fig. 24).

2. *Replace Air Cleaner Element*
(See Page 18).

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

1. **PUSH TRACTOR CLUTCH-BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.**
2. **PLACE PARKING BRAKE IN "ENGAGED" POSITION.**
3. **MOVE GEAR SHIFT LEVER TO "NEUTRAL" POSITION.**
4. **PLACE ATTACHMENT CLUTCH LEVER IN "DISENGAGED" POSITION.**
5. **TURN IGNITION KEY TO "OFF" POSITION.**
6. **MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.**
7. **REMOVE THE IGNITION KEY.**
8. **DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.**

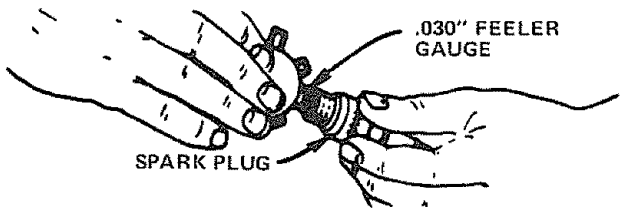

FIGURE 24

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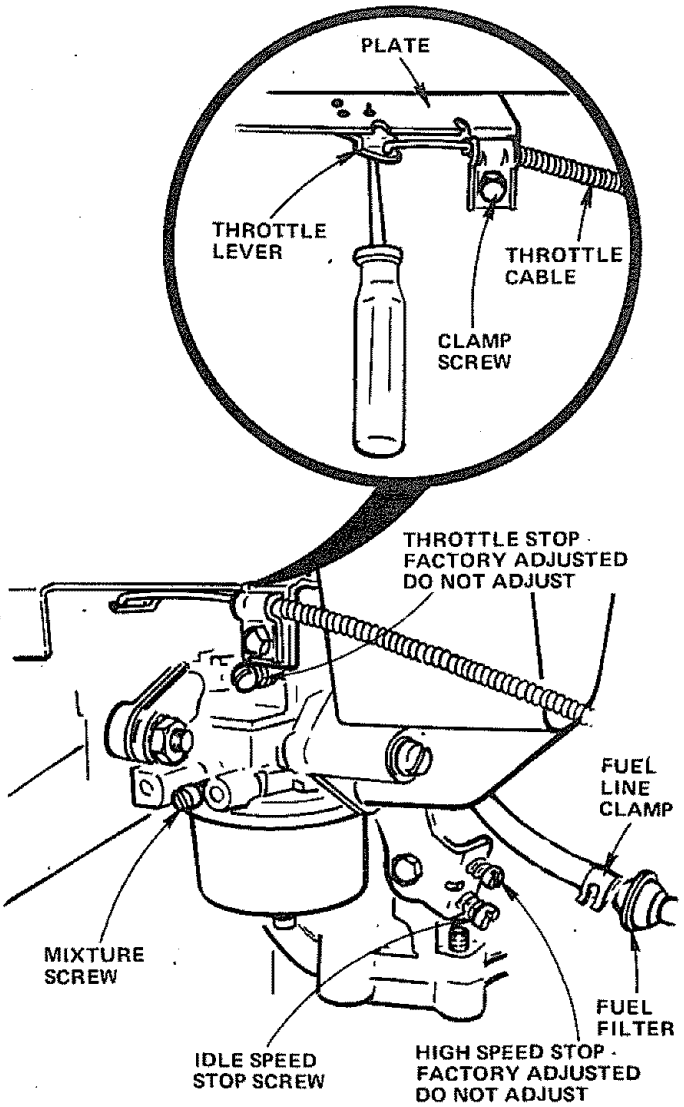

FIGURE 25

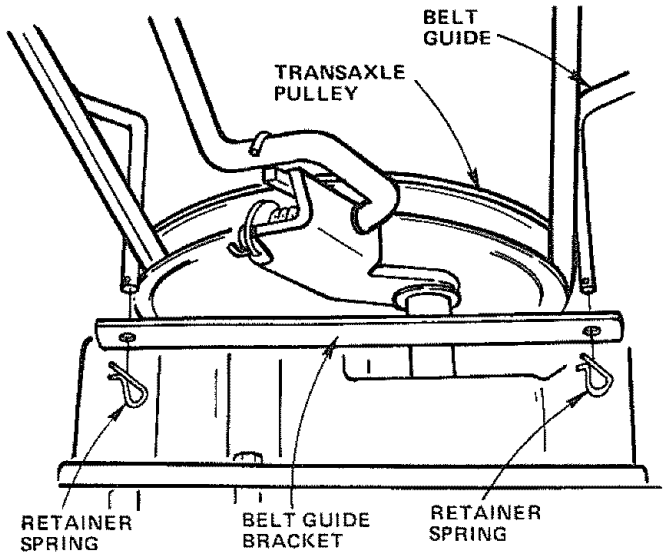

FIGURE 26

1. Starting your Tractor With a Weak Battery

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM.

LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION WHEN AROUND BATTERIES.

a. Connect each end of the RED cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis).
b. Connect one end of the BLACK cable to the NEGATIVE (−) terminals of fully charged battery.
c. Connect the other end of the cable to the L.H. side panel bolt (Fig. 14). NOTE: KEEP AWAY FROM GAS TANK AND BATTERY.
d. Disconnect cables in reverse order:
1. L.H. Side Panel Bolt (Fig 14).
2. Negative terminal of fully charged battery
3. Positive terminals

DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

2. Throttle Control Cable Adjustment

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SETTINGS ARE SATISFACTORY FOR MOST APPLICATIONS AND CONDITIONS. IF ADJUSTMENTS ARE NEEDED, PROCEED AS FOLLOWS:

a. Make sure air cleaner is clean (see page 18).
b. With engine not running, place throttle control in "FAST" detent (not in "CHOKE" position).
c. Check that hole in throttle lever and hole in plate line up (Fig. 25 - Inset). If holes are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw.
d. Turn mixture screw needle clockwise (↷) LIGHTLY to seat. CAUTION: FORCING WILL CAUSE DAMAGE. Turn mixture screw clounterclockwise (↶) one turn.

REFER TO "STARTING THE ENGINE", PAGE 13.

3. Carburetor Adjustment

NOTE: ADJUST THROTTLE CONTROL CABLE BEFORE MAKING ANY ADJUSTMENTS TO THE CARBURETOR.

a. Start engine and allow to idle for 5 minutes.
b. Turn mixture screw clockwise (↷) until the engine speed drops. NOTE THE SCREW POSITION.
c. Turn mixture screw counterclockwise (↶) until the engine begins to run rough. Set mixture screw between the two positions.
d. Push throttle lever to "FAST" detent (not "choke"). If engine "hunts" or runs rough, make small adjustments on mixture screw until engine runs smoothly.

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e. If engine idles too fast or too slow, adjust idle with idle speed stop screw.

f. High speed is factory adjusted. DO NOT ADJUST DAMAGE MAY RESULT.

4. *Motion Drive Belt Replacement*

The tractor drive belt may be replaced without tools. Park the tractor on level area. Engage parking brake. NOTE: BELT INSTALLATION DECAL UNDER LEFT FOOTREST.

a. Remove mower. (See mower section, page 22).

b. Remove two retainer springs from belt guide bracket below transaxle pulley. Remove bracket (Fig. 26).

c. Swing belt guides away from belt, toward rear of tractor (Fig. 26).

d. Roll belt over top of transaxle pulley.

e. Roll belt over engine pulley and off idler (Fig. 28).

f. Release parking brake. Pull belt as far as possible over top of clutch pulley.

g. Reset parking brake. Pull belt over top of clutch pulley (Fig. 28).

h. Pull belt out through shift gate to remove from tractor (Fig. 27).

Install belt by reversing above procedure.

NOTE: REPLACE ONLY WITH BELT LISTED IN MANUAL.

5. *Fuse Replacement*

Replace with 30 amp automotive - type plug-in fuse. Fuses can be purchased at all Sears Service Centers and most retail stores.

6. *Hood Removal*

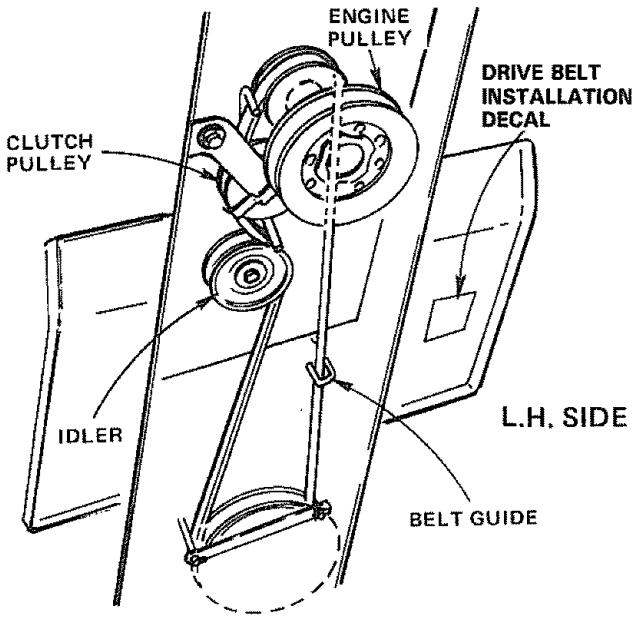
a. To raise hood, lift at rear of hood.

b. To remove hood, grill and side panels, raise hood and loosen one screw or each side panel. (This screw remains in the side panel) (Fig. 29).

c. Unsnap headlight connection (Fig. 30).

d. Stand in front of tractor. Grasp hood and tilt forward and lift off (Fig. 30).

e. To reinstall, reverse above procedure.



REAR

VIEWED FROM BOTTOM OF TRACTOR

FIGURE 28

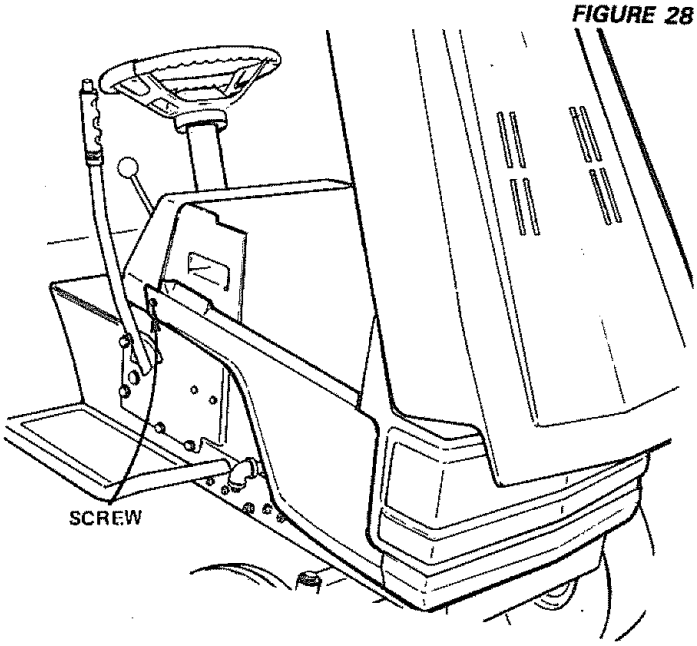


FIGURE 29

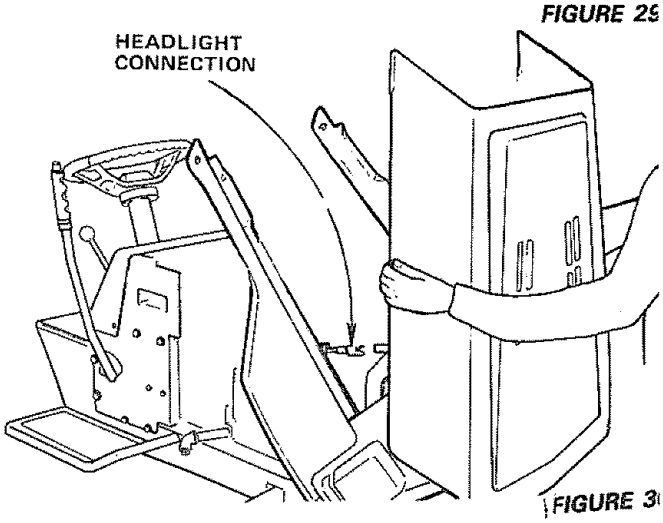


FIGURE 30

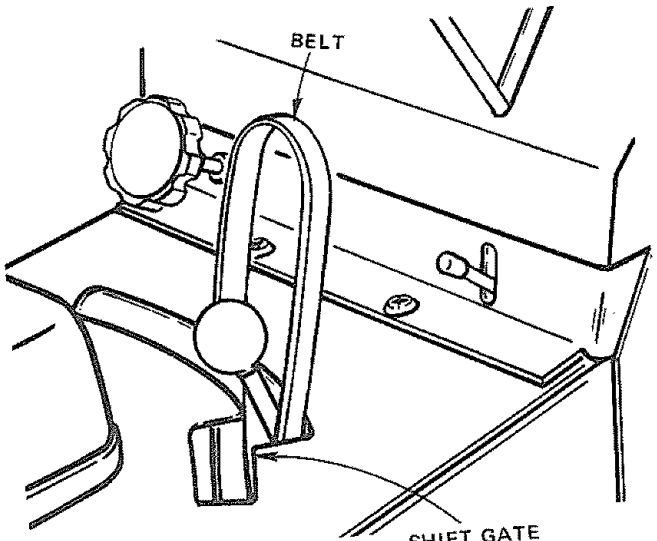


FIGURE 27

REPAIR & ADJUSTMENT

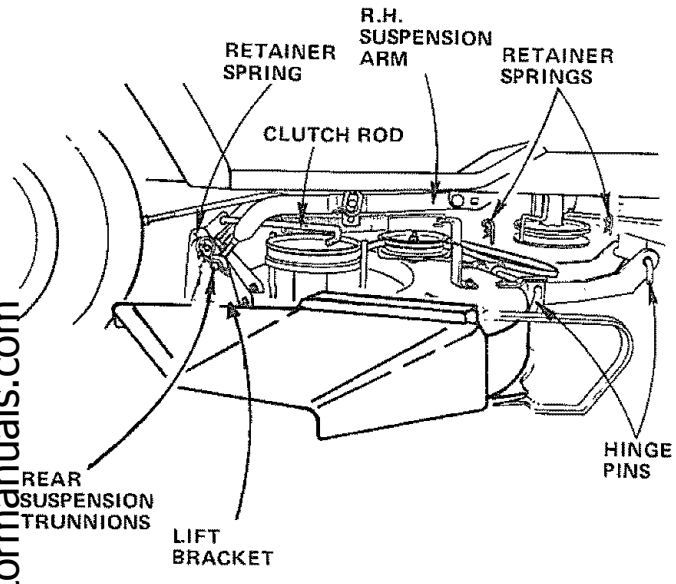


FIGURE 31

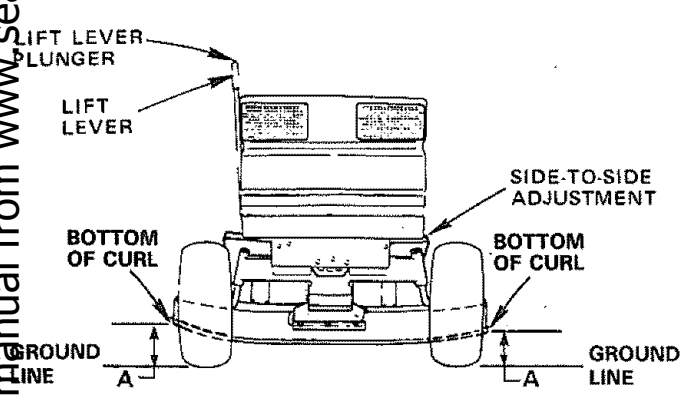


FIGURE 32

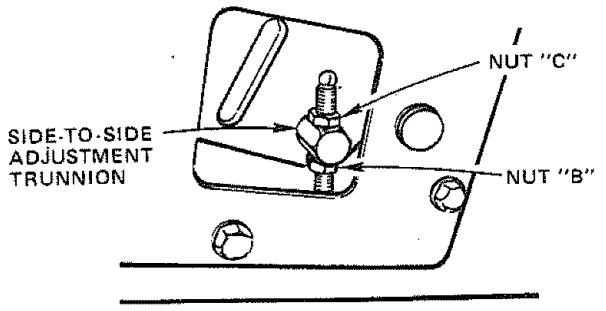


FIGURE 33

7. Mower Removal

a. Remove mower belt per instructions under "Mower Drive Belt Installation" through step c.

b. Remove retainer spring from clutch rod; pull clutch rod out of clutch bracket.

c. Pull retainer springs out of rear suspension trunnions. Remove rear suspensions trunnions from lift brackets (Fig. 31).

d. Pull retainer spring out of rear hinge pin. Remove rear hinge pin.

e. Pull retainer spring out of front hinge pin. Remove front hinge pin (Fig. 31).

f. Use lift lever to raise suspension arms. Slide mower out from under tractor.

NOTE: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, THE L.H. AND R.H. SUSPENSION ARMS (FIG. 31) SHOULD BE REMOVED FROM TRACTOR.

8. Level Mower Housing

Adjust the mower while tractor is parked on level ground or driveway. Make sure tire pressures are 14 PSI in front tires and 12 PSI in rear tires. If tires are over or under inflated, you will not properly adjust your mower.

Side-to-Side Mower Adjustment

a. Park tractor on level surface. Depress lift lever plunger and use lift lever to raise mower to maximum cutting height.

b. Measure height from bottom of curl to ground level at front of mower. Distance "A" should be the same on both sides (Fig. 32).

c. If distance "A" needs to be changed, snap out access hole cover on L.H. side above footrest. Use 9/16" wrench on nuts "B" and "C" at side-to-side adjustment trunnion (Fig. 33).

d. To raise left side of mower, loosen nut "B" and tighten nut "C".

e. To lower left side of mower, loosen nut 'C" and tighten nut "B".

NOTE: ONE ROTATION OF ADJUSTMENT NUTS IS EQUIVALENT TO APPROXIMATELY 3/16" HEIGHT CHANGE.

f. Be sure all nuts are securely tightened.

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Front-To-Rear Mower Adjustment

a. To obtain the best cutting results, your mower housing should be adjusted so the front and rear flange distance "D" (Fig. 34) is 1/2" lower in front when the mower is positioned in the highest cutting position. NOTE: MEASURE DISTANCE "D" FROM GROUND LEVEL TO BOTTOM OF CURL ON RIGHT REAR FLANGE AND COMPARE TO DISTANCE "D" AT, BOTTOM OF CURL ON RIGHT FRONT FLANGE.

b. To raise rear mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" up EQUAL NUMBER OF TURNS (Fig. 35).

c. When distance "D" is 1/2" lower at front than rear tighten nuts "E".

d. To lower rear of mower, loosen nut "F" on both rear suspension arms an EQUAL NUMBER OF TURNS (Fig. 36).

e. When distance "D" is 1/2" lower at front than rear, retighten nuts "E".

NOTE: WHEN ADJUSTING REAR SUSPENSION TRUNNIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL.

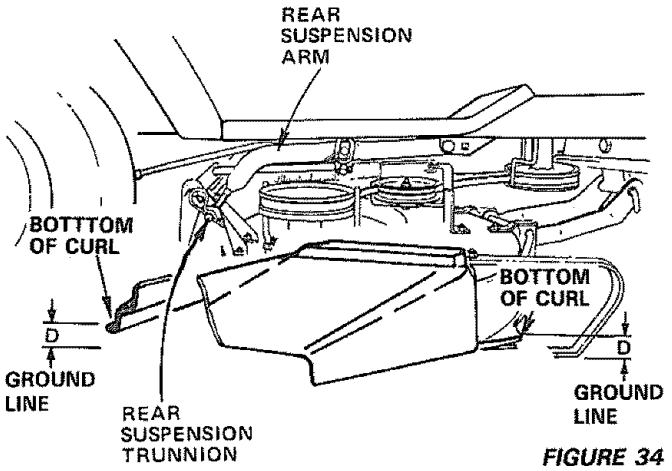


FIGURE 34

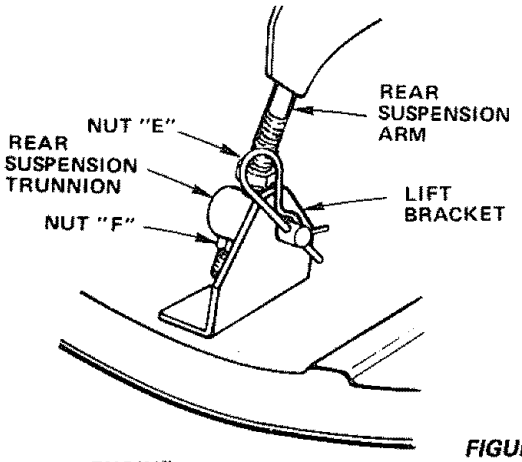


FIGURE 35

9. Mower Drive Belt Adjustment

Your tractor has been manufactured with the ability to re-adjust mower drive belt to provide you with longer belt life.

If the attachment clutch lever travels 3-1/2" up the slot in the dash before spring tension resistance is evident, adjustment is necessary. NOTE CHECK FOR PROPER SPRING TENSION WITH THE ENGINE OFF AND LIFT LEVER IN HIGHEST POSITION.

a. Lower the mower deck for easier access.

b. Using (2) 1/2 wrenches, remove the bolt, nut & D-shaped washers (Fig. 36 - Inset).

c. Move extension spring from lower end of slot to upper end in rock shaft assembly and install bolt, nut & the D-shaped washers.

d. Tighten bolt and nut to secure the D-shaped washers (flat side down).

NOTE: WHEN INSTALLING A NEW BELT, EXTENSION SPRING MUST BE RETURNED TO LOWER END OF SLOT (ORGINAL POSITION) ON ROCK SHAFT ASSEMBLY.

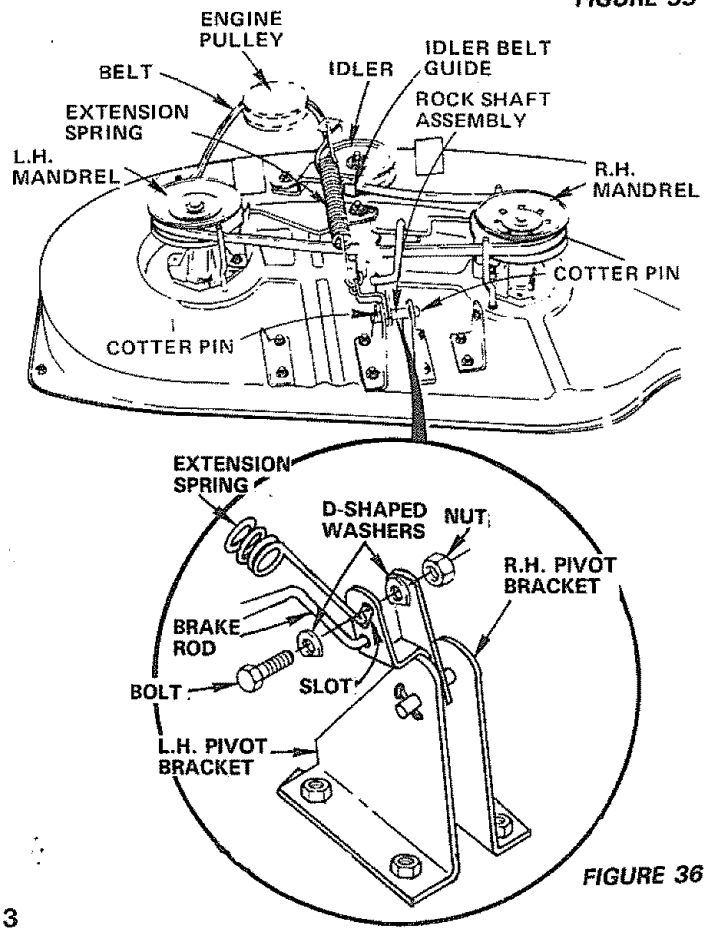


FIGURE 36

REPAIR & ADJUSTMENT

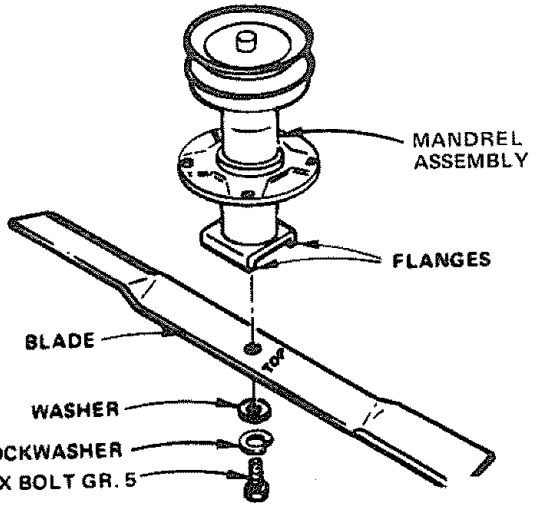


FIGURE 37

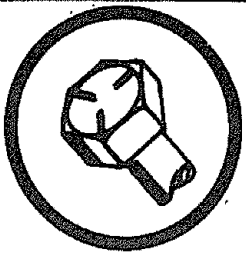
10. Blade Replacement

Raise mower to highest position to permit access to blades.

a. Remove bolt, lockwasher and washer (Fig.37) (turn counterclockwise)( ).

b. Place new blade between flanges, (the word "TOP" is stamped on all blades to assure proper installation), and secure with washer, lockwasher and bolt previously removed. TIGHTEN SECURELY.

ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT, TORQUE BOLTS 30 - 35 FT. LBS.



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.

11. Storage

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean dry area.

A. Fuel System

NOTE: GASOLINE STORAGE STABILIZER (SUCH AS STA-BIL) MUST BE ADDED TO GASOLINE WHEN STORING UNIT. SUCH AN ADDITIVE WILL MINIMIZE FUEL GUM DEPOSITS PREVENTING A CLOGGED FUEL SYSTEM. FOLLOW DIRECTIONS PACKAGED WITH STA-BIL.

Run engine 10 minutes after adding STA-BIL to gasoline to allow additive to reach carburetor.

B. Engine Oil

Drain (with engine warm) and replace with clean engine oil, (See chart page 16).

C. Cylinder(s)

1. Remove spark plug(s).

2. Pour one ounce of oil through spark plug hole(s) into cylinder(s).

3. Turn ignition key to "START" position for a few seconds to distribute oil.

4. Replace with new spark plug(s).

D. Battery

1. Prior to storage, clean terminals and top of battery.

2. After a period of time in storage, battery may require recharging.

E. General Cleaning

Clean engine, battery, seat, finish, etc. of all foreign matter.

F. Store in a Clean Dry Area

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TROUBLESHOOTING

PROBLEM	CAUSE/REMEDY (SEE INDEX)
WILL NOT START	*Push Clutch/Brake Pedal into Brake Position.* *Move Attachment Clutch Lever to "Disengaged Position* *Fill Fuel Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary) Replace Fuel Filter* *Check fuse for fault and replace* *Recharge or replace Battery* *Check Wiring* *Replace Spark Plug(s) and adjust gap*
WILL NOT TURN OVER	*Charge Battery* *Replace Ignition Switch* *Depress Clutch/Brake Pedal* *Disengage Attachment Clutch Lever* *Replace Interlock Switch* *Replace Solenoid* *Replace Fuse* *Check All Wire Connections*
ENGINE CLICKS BUT WON'T START	*Replace Starter* *Charge or Replace Battery*
HARD TO START	*Place Throttle Control in "FAST" position and run starter several times to clear out gas* *Remove and clean Fuel Tank and lines. Replace Fuel Filter* *Remove Air Filter and clean* *Replace Spark Plug(s) and adjust gap* *Replace Battery* *Check the wiring and Spark Plug(s)* *Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug(s)* *Make necessary adjustments to Carburetor* *Major Engine Overhaul*
ENGINE MISSES OR LACKS POWER	*Shift to a lower gear or reduce load* *Remove and clean Fuel Tank; replace Fuel Filter* *Remove and clean Air Cleaner* *Make necessary carburetor adjustments* *Clean Air Screen* *Add or change oil* *Replace Spark Plug(s)* *Check Spark Plug(s) and check for loose wires* *Major Engine overhaul* *Drain Fuel Tank and Carburetor and refill*
ENGINE OVERHEATS	*Clean Air Screen* *Add or change oil* *Clean Engine Cooling Fins* *Remove and clean Muffler or replace* *Remove and clean Air Filter* *Use fresh fuel and adjust Carburetor*
NO LIGHTS	*Check Fuse, Switch and wire connections. Replace Headlight Bulbs*
WON'T CHARGE	*Check for Fuse fault and replace* *Replace Battery* *Replace Diode Assembly* *Replace Alternator*
OPERATOR PRESENCE SYSTEM WILL NOT SHUT DOWN WHEN OPERATOR LEAVES SEAT. *Note: This tractor is equipped with an operator presence sensing system. Any attempt by the operator to leave the seat with the enigne running and the attchment clutch engaged will shut down the engine.*	*Engage attachment clutch* *Check all wire connections* *Check seat switch Check operator presence relay.* *Check PTO Switch.*

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TROUBLESHOOTING

UNSATISFACTORY MOWER PERFORMANCE UNEVEN DISTRIBUTION OF CLIPPINGS	*Check air pressure in tires* *Check front to rear and side to side mower adjustment* *Use a slower ground speed* *Check engines RPM's (refer to Carburetor Adjustment)* *Replace mower blades* *Reinstall mower blades with top of blade up* *Replace with proper mower blades* *Re-adjust mower drive belt*
MOWER BLADES WILL NOT ROTATE	*Install new Mower Drive Belt* *Reinstall Mower Drive Belt* *Adjust Mower Drive Belt* *Replace Frozen Mandrel* *Replace Frozen Idler Pulley*
EXCESSIVE MOWER VIBRATION	*Replace Bent or Unbalanced Blades* *Replace Mandrel, Straighten Deck or replace*
WIND ROWING STRIPPING OR DROPPING OF GRASS CLIPPINGS	*Let grass dry out* *Clean underside of Mower Deck* *Readjust Mower*
UNEVEN CUT OR SCALPING	*Readjust Mower*

SERVICE RECORD

SERVICE RECORD Fill in dates as you complete regular service	**SCHEDULE**							
	FIRST 2 HOURS	**EVERY 5 HOURS**	**EVERY 25 HOURS**	**EVERY 50 HOURS**	**EVERY 100 HOURS**			
Blades			X					
Brake Adjustment			X					
Check Battery				X				
Change Engine Oil	X			X				
Check Engine Oil Level		X						
Clean Air Cleaner Element				X				
Check Muffler				X				
Clean Air Screen				X				
Lubricate Tractor				X				
Replace Spark Plugs					X			
Replace Air Cleaner Element					X			
Check Tire Pressure			X					

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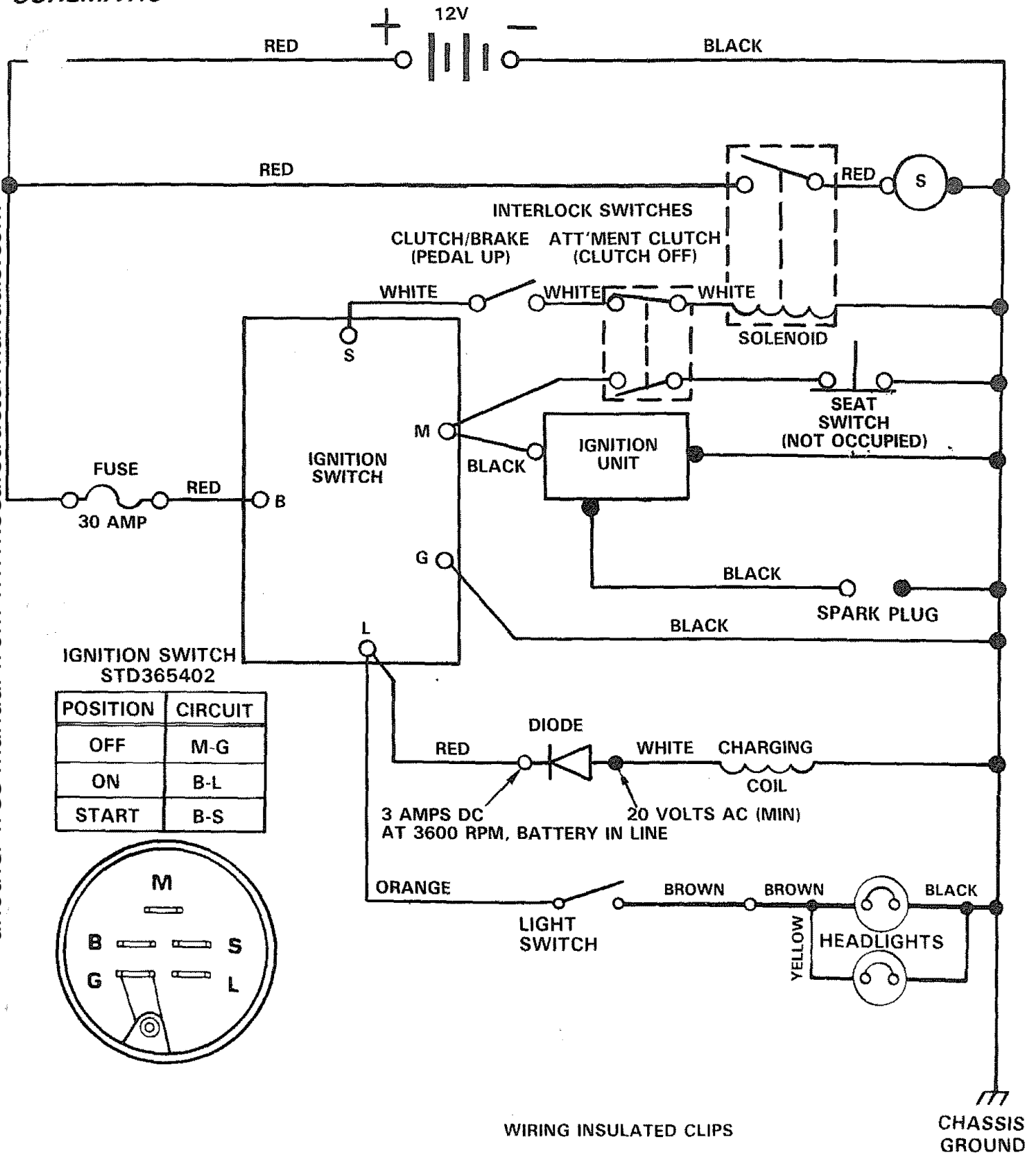
SCHEMATIC



POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

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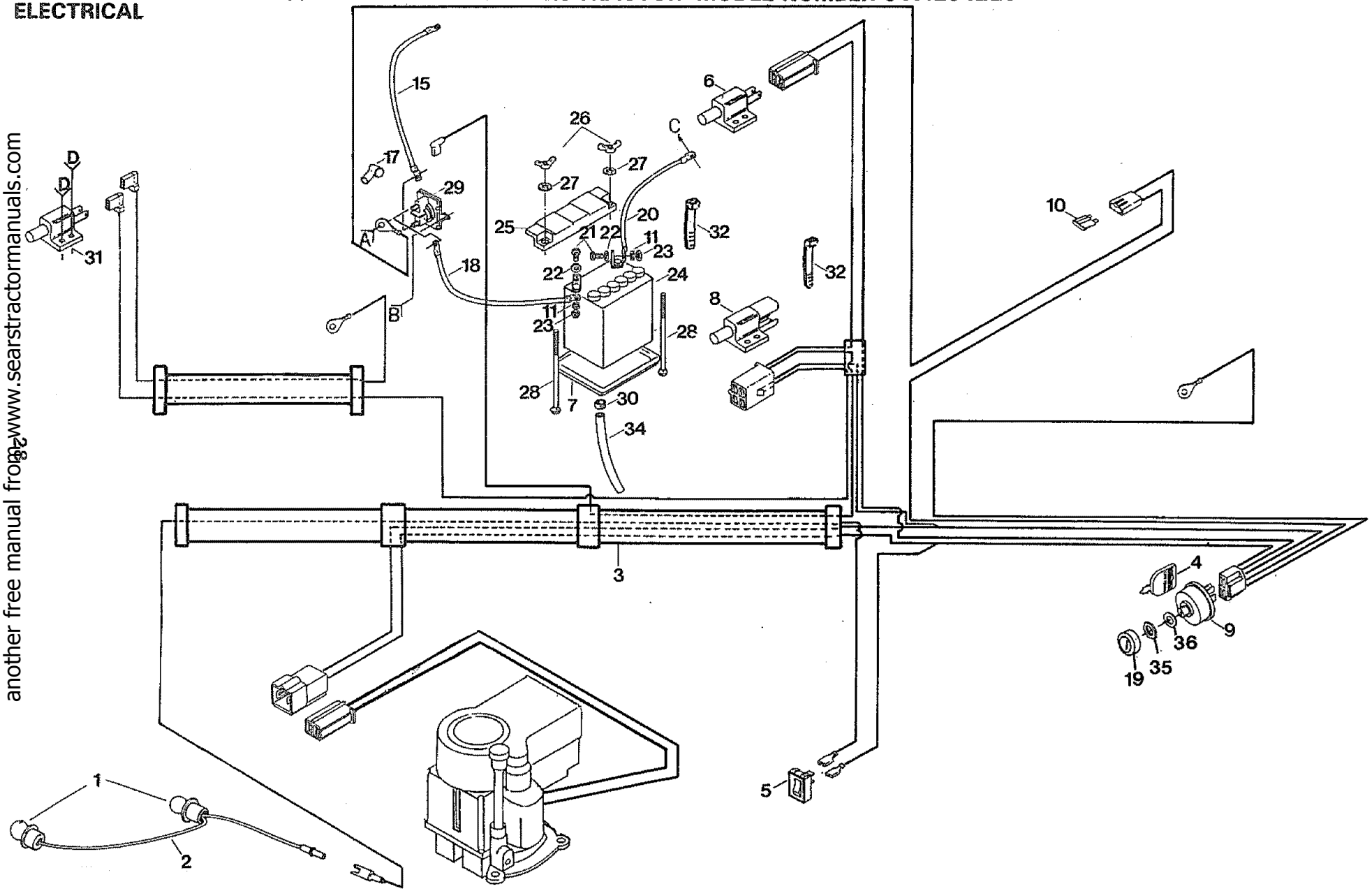
REPAIR PARTS

ELECTRICAL

10 H.P. 36'' RIDING LAWN TRACTOR--MODEL NUMBER 917.254220



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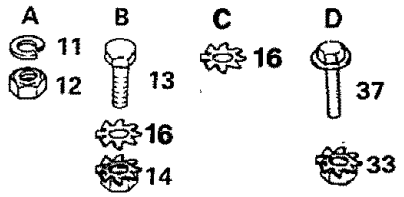
..P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

KEY NO.	PART NO.	DESCRIPTION
1	7662J	Bulb, Light
2	105386X	Harness, Light Socket
3	109366X	Harness, Ignition
4	109310X	Key, Molded
5	105381X	Switch, Light
6	104445X	Switch, Interlock, Clutch Pedal
7	105372X	Tray, Battery
8	109553X	Switch, Interlock, Attachment Clutch
9	STD365402	Switch, Ignition
10	108824X	Fuse, 30 Amp
11	STD551125	*Washer, Lock 1/4
12	STD541225	*Nut, Hex Jam 1/4-20
13	STD522505	*Bolt, Hex, 1/4-20 x 1/2 Gr.5
14	73510400	Nut, Keps 1/4 -20
15	4559J	Cable Assembly
16	11050400	Washer, Lock, Ext. Tooth, 1/4
17	719J	Cover, Terminal
18	5114J	Cable, Battery
19	109787X	Bezel, Switch
20	2033J	Cable, Battery

KEY NO.	PART NO.	DESCRIPTION
21	STD522507	*Bolt, Hex 1/4-20 x 3/4
22	STD551025	*Washer 9/32 x 5/8 x 16 Ga.
23	STD541025	*Nut, Hex 1/4-20
24	104923X	Battery, 12V., Sears
25	105371X	Terminal Guard
26	STD541625	*Wing Nut 1/4-20
27	11030400	Int/Ext. Tooth Lockwasher 1/4
28	72240460	Battery Bolt (Bolt - Carriage, Rd. Hd. Sq. Neck 1/4-20 x 7 - 1/2)
29	109081X	Solenoid
30	109596X	Clamp, Hose
31	109869X	Switch - Seat
32	7192J	Cable Tie
33	73951000	Nut-Keps #10-32
34	105687X	Tube, Plastic
35	109788X	Nut - Ignition
36	19221616	Washer 11/16 x 1 x 16 Ga.
37	71031008	Screw - Hex Washer Hd. 10 - 32 x 1/2
---	101539X	Sheet - Instruction, Tractor 15° Slope
---	109494X	Owners Manual

*STANDARD HARDWARE--PURCHASE LOCALLY



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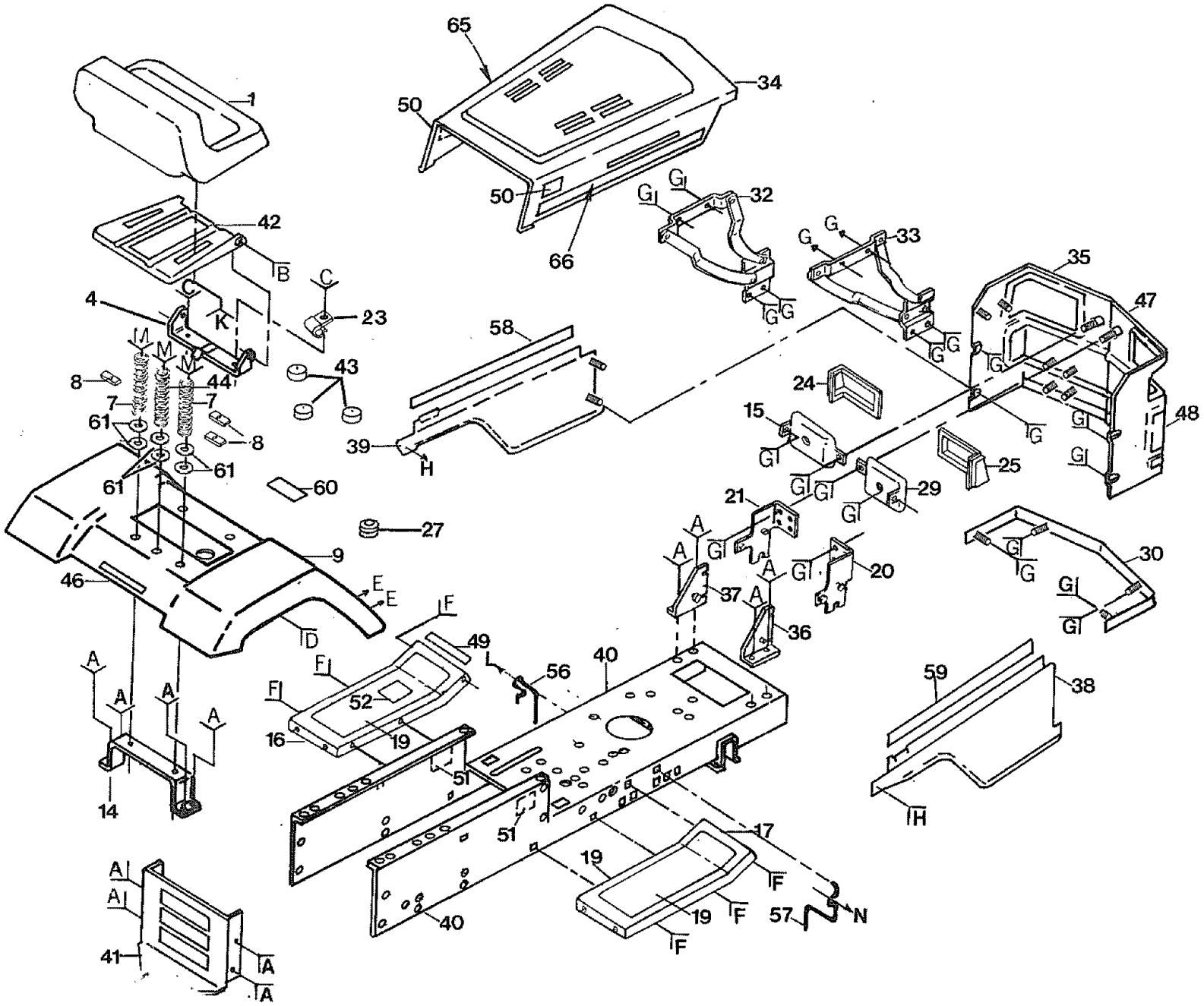
REPAIR PARTS

ENCLOSURE

10 H.P. 36'' RIDING LAWN TRACTOR---MODEL NUMBER 917.254220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ENCLOSURE

10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

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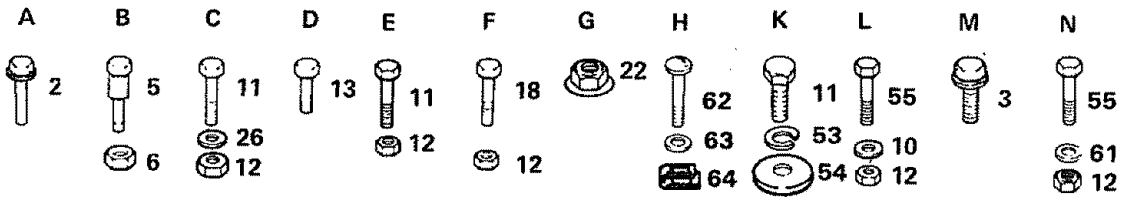
KEY NO.	PART NO.	DESCRIPTION
1	110054X	Seat
2	17490612	Screw, Hex Washer Thd. Roll 3/8-16 x 3/4 Type TT
3	17490616	Screw, Hex Washer Thd. Rolling 3/8-16 x 1
4	110355k	Bracket - Pivot, Seat
5	105529X	Bolt, Shoulder, 5/16-18
6	73680500	Nut, Lock, 5/16-18
7	105512X	Spring - Compression
8	105514X	Clamp, Spring
9	109872X	Fender
10	19131312	Washer 13/32 x 13/16 x 12 Ga.
11	STD523707	*Bolt, Hex, 3/8-16 x 3/4
12	73680600	Nut, Lock 3/8-16
13	17490608	Screw, Hex Washer Thd. Roll 3/8-16 x 1/2
14	109873X	Bracket, Fender
15	106006X	Bezel, L.H.
16	105465X	Footrest, L.H.
17	105464X	Footrest, R.H.
18	STD533707	*Bolt, Carr. 3/8-16 x 3/4
19	105466X	Pad, Footrest
20	108504X	Bracket, Pivot, Grill, R.H.
21	108505X	Bracket, Pivot, Grill, L.H.
22	108067X	Pal Nut 1/4-20
23	2751R	Clip - Fuel Line
24	108361X	Lens, L.H.
25	108360X	Lens, R.H.
26	19131210	Washer 13/32 x3/4 x 10 Ga.
27	109641X	Grommet
29	106005X	Bezel, R.H.
30	109745X	Strap Assembly - Grill
32	105797X	Hinge, Hood, L.H.
33	105792X	Hinge, Hood, R.H.
34	105682X	Hood Assembly
35	105678X	Grill Assembly
36	108500X	Bracket, Frame, Pivot, R.H.
37	108501X	Bracket, Frame, Pivot, L.H.
38	106927X	Side Panel, R.H.
39	106929X	Side Panel, L.H.
40	108969X	Chassis Assembly
41	102481X	Drawbar
42	109866X	Pan - Seat
43	109412X	Cap, Spring
44	109867X	Spring; Compression
46	105801X	Decal - Reflective, rear
47	105806X	Decal, Grill Craftsman
48	105807X	Decal, Grill, Stripe
49	4900J	Decal, Clutch/Brake
50	105804X	Decal, 10 H.P.
51	105808X	Decal, 4 Speed, 36"
52	109199X	Decal, V-Belt Schematic
53	STD551137	*Washer - Lock 3/8
54	19131212	Washer 13/32 x 3/4 x 12 Ga.
55	STD523710	*Bolt, Hex 3/8-16 x1
56	106301X	Guide - Belt, Lower, Eng. Pulley, L.H.
57	106300X	Guide - Belt, Lower, Eng. Pulley. R.H.
58	106811X	Decal - Stripe, Side Panel, L.H.
59	106812X	Decal - Stripe, Side Panel, R.H.
60	106974X	Decal - OPEI, Caution
61	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
62	106909X	Screw - Special
63	106910X	Washer
64	106911X	Clip
65	105802X	Decal - Stripe, L.H.
66	105803X	Decal - Stripe, R.H.

*STANDARD HARDWARE--PURCHASE LOCALLY



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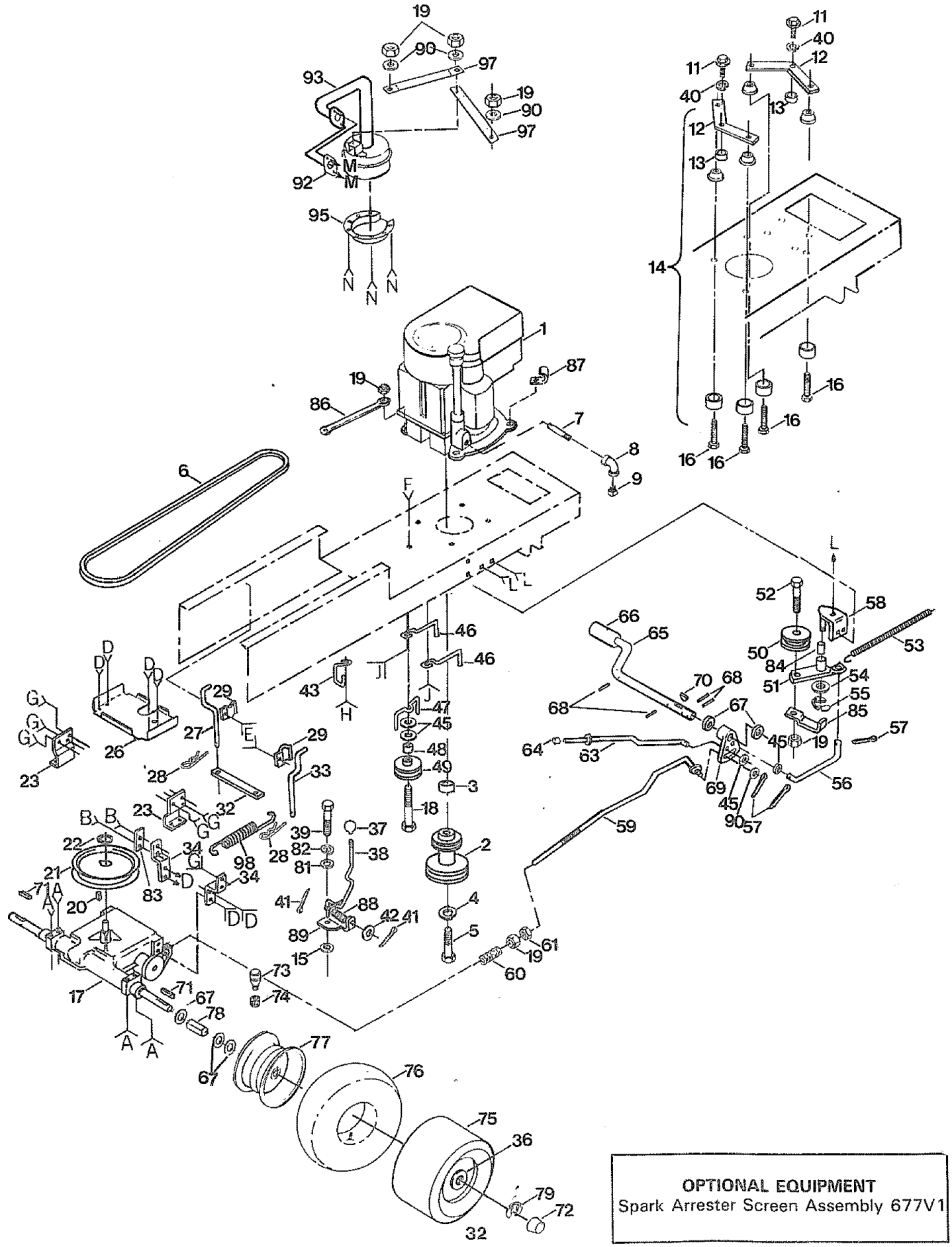
REPAIR PARTS

DRIVE **10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220**



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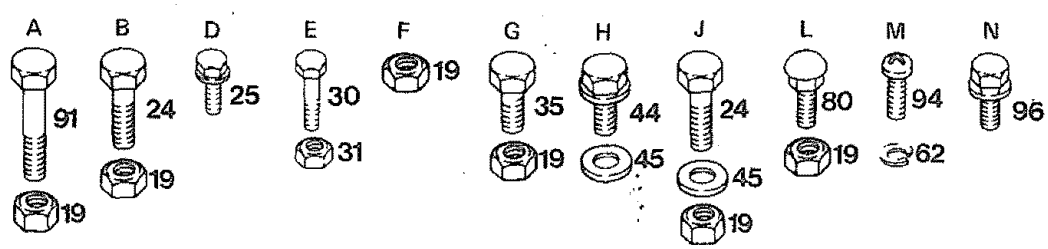
REPAIR PARTS

10 H.P. 36'' RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

DRIVE

KEY NO.	PART NO.	DESCRIPTION
1	108871X	Engine, 10HP, Tecumseh Model No. 143.376022
2	105731X	Pulley, Engine
3	6404J	Spacer
4	STD551143	*Washer, Lock 7/16
5	74770728	Bolt, Hex 7/16 - 20 x 1 - 3/4
6	105732X	V-Belt, Drive
7	13280320	Nipple, Pipe
8	13200300	Elbow, Std. 3/8 - 18 NPT
9	31927	Plug, Pipe
11	17490620	Screw, Hex Washer, 3/8 - 16 x 1 - 1/4
12	105640X	Strap, Torque, Engine
13	106342X	Spacer
14	105734X	Isomount Assembly
15	105701X	Washer - Shift Plate
16	17490640	Screw, Hex Washer, 3/8 - 16 x 2 - 1/2
17	110066X	Transaxle, 4 Speed, Foote, Model 4150-41 (see pages 36 and 37 for parts breakdown)
18	STD523727	*Bolt, Hex 3/8 - 16 x 2 - 3/4
19	73680600	Nut, Lock 3/8 - 16
20	STD580025	*Key, Woodruff
21	105703X	Pulley, Transaxle
22	12000028	Ring, Retainer
23	109167X	Bracket, Transaxle
	STD523710	*Bolt, Hex 3/8 - 16 x 1
	17490512	Screw, Hex Washer Thread Rolling 5/16 - 18 x 3/4
26	108171X	Support, Battery
27	109368X	Keeper, Belt, L.H.
28	4921H	Retainer, Spring
29	106190X	Clamp
30	STD523107	*Bolt, Hex 5/16 - 18 x 3/4
31	73680500	Nut, Lock 5/16 - 18
32	109370X	Strap, Locator
33	109369X	Keeper, Belt, R.H.
34	105842X	Strap, Torque, Transaxle
35	STD523707	*Bolt, Hex 3/8 - 16 x 3/4
36	19252616	Washer 25/32 x 1 - 5/8 x 16 Ga.
37	106933X	Knob, Control
	105899X	Rod, Shifter
39	71040412	Bolt, Hex 1/4 - 28 x 3/4 Gr. 8
40	STD551137	*Washer - Lock 3/8
41	STD561210	*Cotter Pin, 1/8 x 1
42	19151216	Washer 15/32 x 3/4 x 16 Ga.
43	104777X	Retainer, Belt
44	17490612	Screw, Hex Washer Thd. Rolling 3/8 - 16 x 3/4
45	19131312	Washer 13/32 x 13/16 x 12 Ga.
46	105730X	Keeper, Belt, Engine
47	109070X	Keeper, Belt
48	4470J	Spacer
49	4859J	Idler, Flat
50	106298X	Pulley, Idler
51	105705X	Bellcrank Assembly (Inc. Key No. 84)
52	STD523715	*Bolt, Hex 3/8 - 16 x 1 - 1/2
53	105709X	Spring, Return, Clutch
54	207J	Washer, Hardened
55	12000039	Ring, Klip
56	105710X	Link, Clutch
57	76020412	Pin, Cotter 1/8 x 3/4
58	105724X	Bracket, Clutch
59	109127X	Rod, Brake
60	106888X	Spring, Rod, Brake
61	73350600	Nut - Jam 3/8 - 16
62	STD551131	*Washer - Lock 5/16
63	105758X	Rod, Brake, Parking
64	71673	Cap - Plunger
65	109037X	Shaft, Foot Pedal
66	8883R	Cover - Pedal
67	19252016	Washer 25/32 x 1 - 1/4 x 16 Ga.
68	STD571810	*Pin, Roll, 3/16 x 1
69	106918X	Arm, Brake
70	STD580025	*Key, Woodruff
71	STD580105	*Key, Square 3/16 x 2
72	104757X	Cap, Hub, Rear
73	59192	Cap, Valve
74	65139	Stem, Valve
75	106268X	Tire, Rear - 18 x 9.50 x 8
76	7152J	Tube, Tire (not furnished with tractor)
77	106108X	Rim Assembly, Rear
78	109502X	Spacer, Split
79	12000001	E-Ring
80	STD533707	*Bolt, Carriage 3/8 - 16 x 3/4
81	19091210	Washer 9/32 x 3/4 x 10 Ga.
82	STD551125	*Washer, Lock 1/4
83	106157X	Plate - Strap, Torque
84	105706X	Bearing
85	106499X	Retainer - Belt
86	106299X	Strap - Ground
87	2751R	Clip - Insulated
88	105700X	Spring, Torsion
89	106919X	Plate, Shift, Rod
90	19131316	Washer 13/32 x 13/16 x 16 Ga.
91	74760644	* Bolt - Hex 3/8 - 16 x 2 - 3/4
92	72144	Gasket
93	110285X	Muffler
94	74030510	Screw - Cross Recess Fillister Head
95	101326L	Deflector - Muffler
96	17450808	Screw - Hex Washer Hd. No.8 - 32 x 1/2
97	108863X	Brace, Muffler
98	110422X	Spring - Brake Return

*STANDARD HARDWARE--PURCHASE LOCALLY



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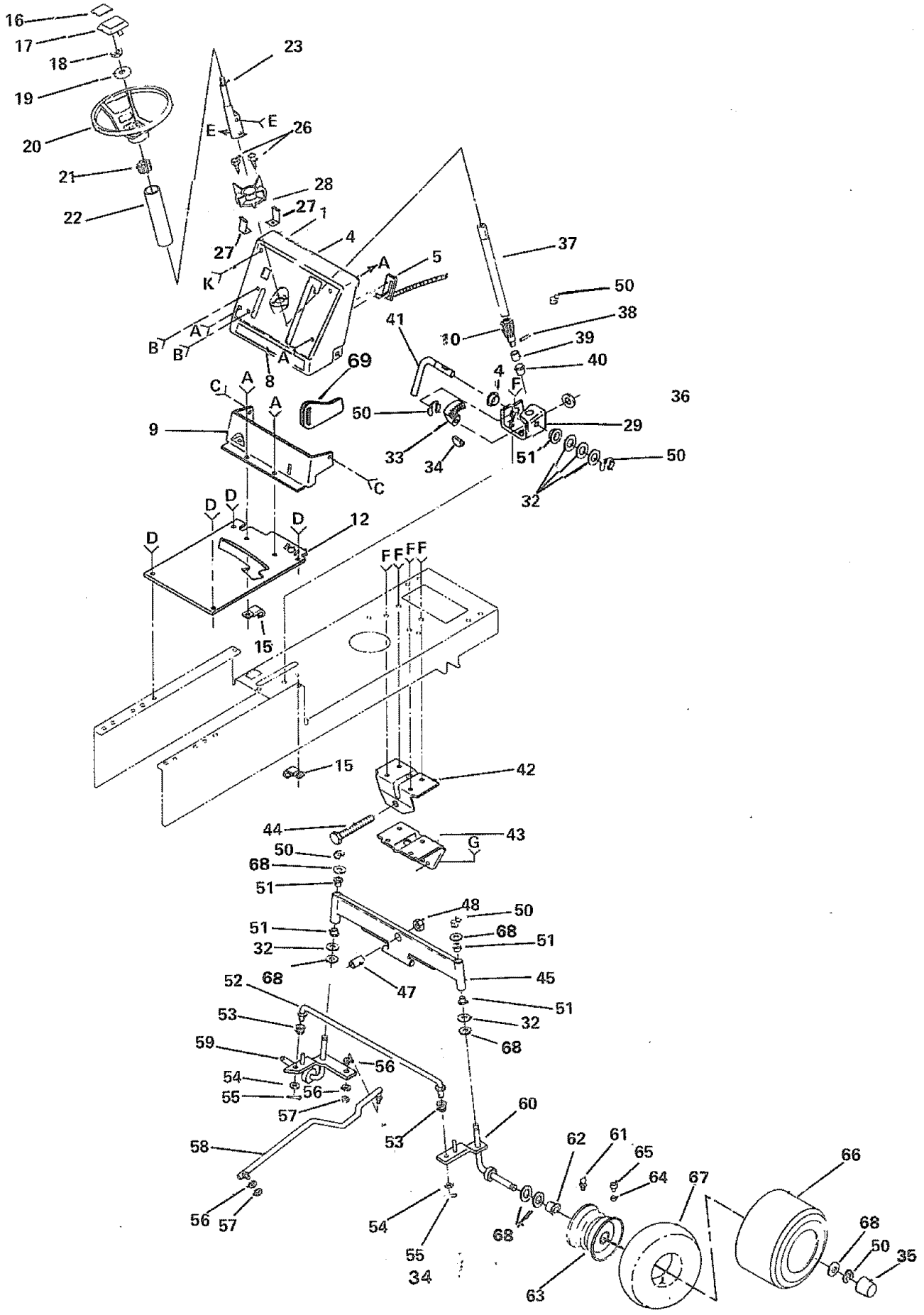
REPAIR PARTS

10 H.P. 36'' RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

STEERING AND FRONT AXLE



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REPAIR PARTS

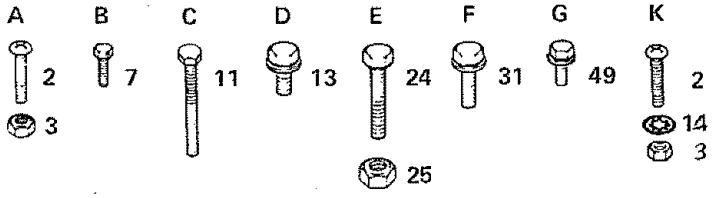
10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION
1	109283X	Dash
2	74180512	Screw - Truss Hd. Cross Recess 5/16 - 18 x 3/4
3	73510500	Nut - Keps 5/16 - 18
4	109816X	Nyliner, Snap-In
5	110439X	Control - Throttle
7	17720408	Screw - Hex Thread Cut. 1/4 - 20 x 1/2
8	108456X	Decal - Dash Lower
9	105621X	Dash - Lower
10	108685X	Gear - Pinion
11	17190508	Screw - Hex Washer Hd. Thread Cut. 5/16 - 18 x 1/2
12	105742X	Saddle
13	17490608	Screw - Hex Washer Hd. Thread Rolling 3/8 - 16 x 1/2
14	11150500	Washer, Lock, Int. Tooth 5/16
15	2751R	Clip
16	105810X	Decal - Cap, Steering Wheel
17	100710L	Insert - Steering Wheel
18	STD541350	*Nut - Hex Jam 1/2 - 20
19	100712K	Washer
20	100713N	Wheel - Steering
21	100711L	Adapter - Steering Wheel
22	109285X	Sleeve - Steering
23	105643X	Shaft - Steering, Upper
[illegible]	STD523712	*Bolt - Hex 3/8 - 16 x 1 - 1/4
[illegible]	73680600	Nut - Lock 3/8 - 16
26	98000165	Screw - Hex Self Tap. No. 10 - 16 x 1/2 TY AB
27	110130X	Retainer - Steering Sleeve
28	109284X	Bushing - Steering
29	109432X	Bracket - Steering
30	19252616	Washer 25/32 x 1 - 5/8 x 16 Ga.
31	17490612	Screw - Hex Washer Thread Rolling 3/8 - 16 x 3/4 Type TT
32	6266H	Bearing - Thrust
33	108684X	Gear - Sector
34	106126X	Key - Woodruff

KEY NO.	PART NO.	DESCRIPTION
35	104757X	Cap, Hub, Front
36	101930X	Washer, Hardened
37	109068X	Shaft - Steering, Lower
38	2882J	Pin - Drive 3/16 x 1
39	74580	Spacer .627 x .88 x .695
40	71208	Bushing
41	108683X	Rod - Steering
42	105663X	Support - Saddle, Rear
43	105664X	Support - Saddle, Front
44	74761060	Bolt - Hex 5/8 - 11 x 3 - 3/4
45	105669X	Axle - Front
47	110438X	Spacer Bearing - Axle
48	73901000	Nut - Lock, Flange 5/8 - 11
49	17490508	Screw - Hex Washer Thread Rolling 5/16 - 18 x 1/2 Type TT
50	12000029	Klip Ring
51	3366R	Bearing
52	105715X	Rod - Tie
53	102792X	Bushing
54	19131416	Washer 13/32 x 7/8 x 16 Ga.
55	76020412	Pin - Cotter 1/8 x 3/4
56	STD551137	*Washer - Lock 3/8
57	STD541137	*Nut - Hex 3/8 - 24
58	105727X	Link - Drag
59	105656X	Spindle - L.H.
60	105654X	Spindle - R.H.
61	278H	Fitting - Grease
62	9040H	Bearing - Flange
63	106732X	Rim - 6" - Front
64	59192	Cap - Valve
65	65139	Stem - Valve
66	106217X	Tire - Rib 15 x 6.00 - 6
67	59904	Tube - Front (not furnished with tractor)
68	19252016	Washer 25/32 x 1 - 1/4 x 16 Ga.
69	110307X	Stop - Mower, Clutch Lever

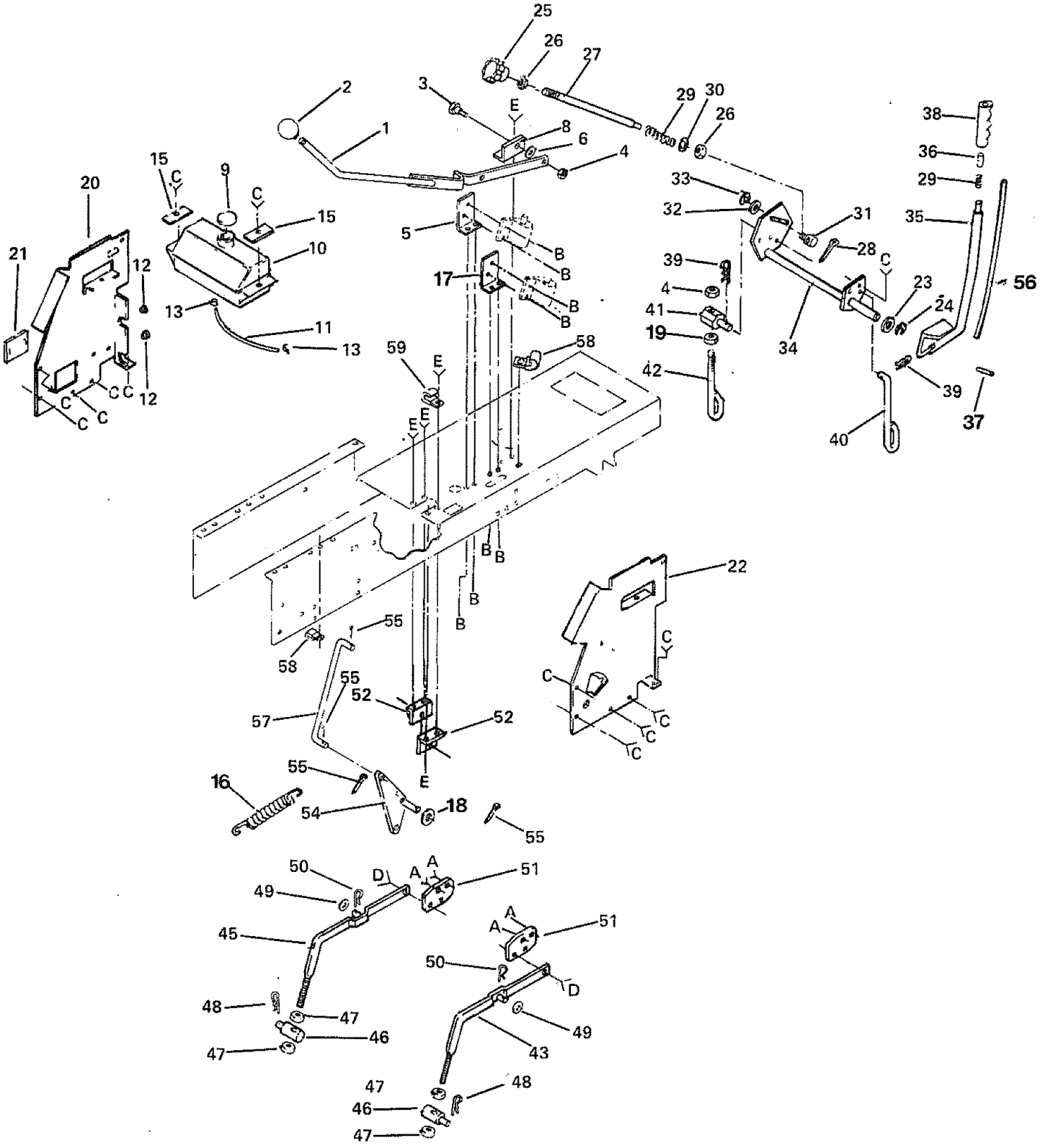
*STANDARD HARDWARE--PURCHASE LOCALLY



REPAIR PARTS

10 H.P. 36'' RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

LIFT ADJUSTMENT



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REPAIR PARTS

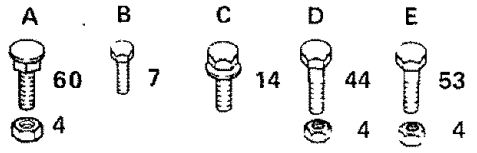
10 H.P. 36'' RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

LIFT ADJUSTMENT

KEY NO.	PART NO.	DESCRIPTION
1	106448X	Lever, Clutch, Mower
2	106932X	Knob
3	106451X	Bolt, Shoulder
4	73680600	Nut, Lock, 3/8 - 16
5	106452X	Bracket, Switch, Interlock
6	19171713	Washer 17/32 x 1 - 1/16 x 13 Ga.
7	17021008	Screw, Hex, Tapping, No. 10 - 24 x 1/2
8	106447X	Support, Lever, Clutch
9	109462X	Cap, Fuel
10	109202X	Tank, Fuel
11	101335K	Line, Fuel
12	9151R	Grommet
13	6999R	Clamp - Hose
14	17490612	Screw, Hex Washer Thd. Rolling 3/8 - 16 x 3/4
15	106901X	Clamp - Tank, Fuel
16	106810X	Spring - Extension
17	108236X	Bracket - Switch
18	19131410	Washer 13/32 x 7/8 x 10 Ga.
19	73220600	Nut - Hex 3/8 - 16
20	106920X	Panel, Dash, L.H.
21	105505X	Cover, Access
22	106921X	Panel, Dash, R.H.
23	19292016	Washer 26/32 x 1 - 1/4 x 16 Ga.
	12000029	Klip Ring
25	100734K	Knob
26	STD541237	*Nut, Hex Jam 3/8 - 16
27	105686X	Rod, Adjust, Lift
28	76020308	Pin, Cotter 3/32 x 1/2
29	2876H	Spring
30	19131016	Washer 13/32 x 5/8 x 16 Ga.

KEY NO.	PART NO.	DESCRIPTION
31	101272K	Trunnion, Depth Stop
32	19151216	Washer 15/32 x 3/4 x 16 Ga.
33	12000037	Klip Ring
34	105754X	Shaft, Lift
35	105768X	Lever, Assembly
36	105723X	Plunger
37	105767X	Pin - Groove
38	109413X	Grip, Handle
39	4939M	Retainer, Spring
40	110029X	Link, Lift
41	106204X	Trunnion, Lift
42	105855X	Link, Lift, Adjustable
43	105862X	Arm, Suspension, R.H.
44	105848X	Bolt, Shoulder, 3/8 - 16
45	105863X	Arm, Suspension, L.H.
46	106308X	Trunnion, Lift, Lower
47	STD541250	*Nut - Hex Fin. 1/2 - 13
48	9135R	Retainer, Spring
49	19171516	Washer 17/32 x 15/16 x 16 Ga.
50	4921H	Retainer, Spring
51	105864X	Bracket, Suspension
52	106444X	Bracket, Bellcrank
53	STD523707	*Bolt, Hex 3/8 - 16 x 3/4
54	109728X	Bellcrank Assembly
55	76020412	Pin, Cotter, 1/8 x 3/4
56	105764X	Rod Assembly - Lever, Lift
57	106446X	Rod, Clutch, Primary
58	2751R	Clip, Fuel Line
59	5320R	Clip
60	STD533707	*Bolt, Carriage 3/8 - 16 x 3/4

*STANDARD HARDWARE--PURCHASE LOCALLY



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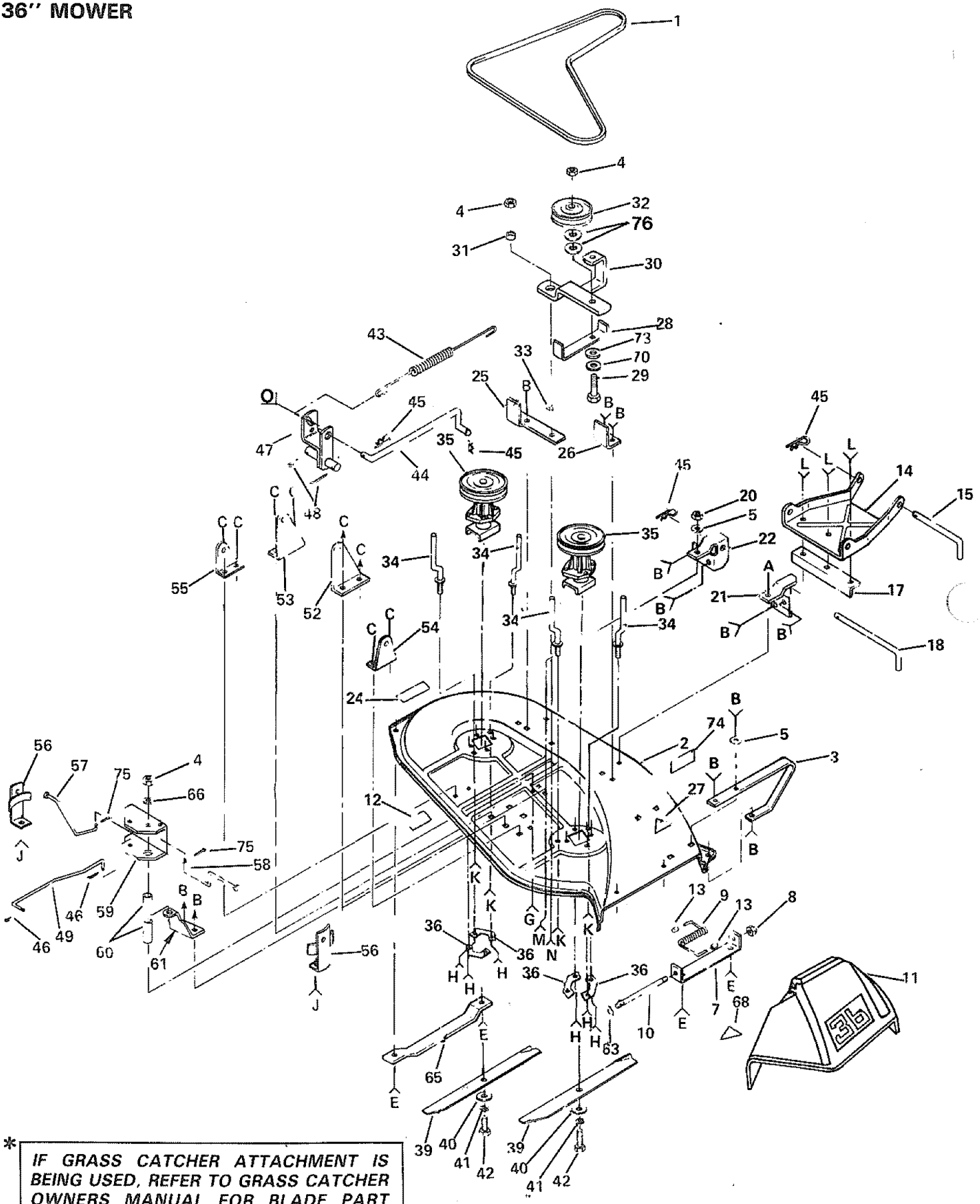
REPAIR PARTS

10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

36" MOWER



REPAIR PARTS

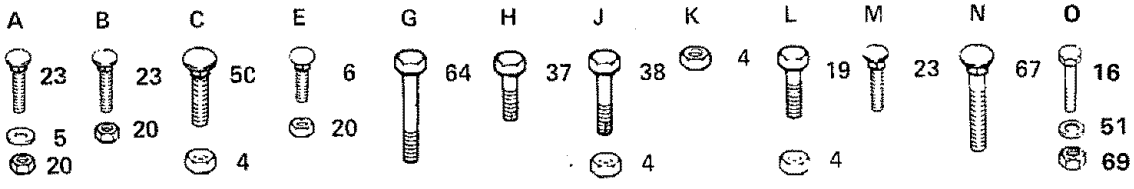
10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220

36" MOWER

KEY NO.	PART NO.	DESCRIPTION
1	106085X	V-Belt
2	105689X	Housing
3	8417J	Runner, R.H.
4	73680600	Nut, Lock, 3/8 - 16
5	19111216	Washer 11/32 x 3/4 x 16 Ga.
6	72140505	Bolt, Carr., 5/16 - 18 x 5/8
7	105896X	Bracket, Deflector
8	110452X	Nut
9	106734X	Spring, Deflector
10	106735X	Rod - Hinge
11	106755X	Deflector - Shield
12	105814X	Decal
13	105304X	Cap
14	105662X	Link, Parallel
15	105744X	Pin - Hinge, Front
16	74760412	Bolt - Hex 1/4 - 20 x 3/4
17	105872X	Stop, Link
18	105743X	Pin - Hinge, Rear
19	STD523707	*Bolt - Hex 3/8 - 16 x 3/4
20	73680500	Nut, Lock 5/16 - 18
21	109598X	Bracket, Lift, R.H.
22	109597X	Bracket, Lift, L.H.
23	STD533107	*Bolt, Carr. 5/16 - 18 x 3/4
24	3713J	Instruction - Caution Decal
25	109503X	Arm, Support
	109504X	Stop, Deck, Front
	106975X	Decal - Safety Standard
28	106461X	Guide, Belt
29	STD523720	*Bolt - Hex 3/8 - 16 x 2
30	108832X	Arm, Idler
31	106902X	Spacer - Retainer
32	102403X	Pulley - Idler
33	106513X	Washer, Wear, 1/16
34	102669X	Keeper, Belt
35	105891X	Mandrel Assembly
36	100668L	Plate, Support, Mandrel
37	17490612	Screw, Hex Washer Hd. 3/8 - 16 x 3/4
38	17490620	Screw, Hex Washer Hd. 3/8 - 16 x 1 - 1/4

KEY NO.	PART NO.	DESCRIPTION
39	106634X	Blade, 36"
40	19132012	Washer 13/32 x 1 - 1/4 x 12 Ga.
41	STD551137	*Washer, Lock 3/8
42	STD632715	*Bolt, Hex, 3/8 - 24 x 1 - 1/2 Gr. 5
43	108250X	Spring, Extension
44	108235X	Rod - Clutch, Mower
45	4921H	Spring - Retainer
46	STD560907	*Pin, Cotter 3/32 x 3/4
47	109892X	Rock Shaft Assembly
48	76020616	Pin, Cotter, 3/16 x 1
49	108247X	Rod, Brake, Primary
50	STD533707	*Bolt, Carr. 3/8 - 16 x 3/4
51	109893X	Washer - Special
52	108243X	Bracket, Pivot, R.H.
53	108241X	Bracket, Pivot, L.H.
54	105857X	Bracket, Suspension, Rear, R.H.
55	108673X	Bracket, Suspension, Rear, L.H.
56	106578X	Brake Assembly
57	106463X	Rod, Brake, Secondary L.H.
58	108249X	Rod, Brake, Secondary, R.H.
59	106456X	Bracket, Brake, Pivot
60	100672K	Spacer, Brake
61	100673L	Bracket, Support
62	106514X	Washer, Wear 3/16
63	19111016	Washer 13/32 x 1 x 14 Ga.
64	74760684	Bolt, 3/8 - 16 x 5 - 1/4
65	7631J	Runner, L.H.
66	19131614	Washer13/32 x 1 x 14 Ga.
67	72140610	Bolt, Carr. 3/8 - 16 x 1 - 1/4
68	78850	Decal - Warning
69	73680400	Nut - Lock 1/4 - 20
70	STD551037	*Washer 13/32 x 13/16 x 16 Ga.
73	19132012	Washer 13/32 x 1 - 1/4 x 12 Ga.
74	106679X	Decal - Warning
75	76020308	Pin, Cotter, 3/32 x 1/2
76	19131316	Washer 13/32 x 13/16 x 16 Ga.

*STANDARD HARDWARD--PURCHASE LOCALLY



*IF GRASS CATCHER ATTACHMENT IS BEING USED, REFER TO GRASS CATCHER OWNERS MANUAL FOR BLADE PART NUMBER.

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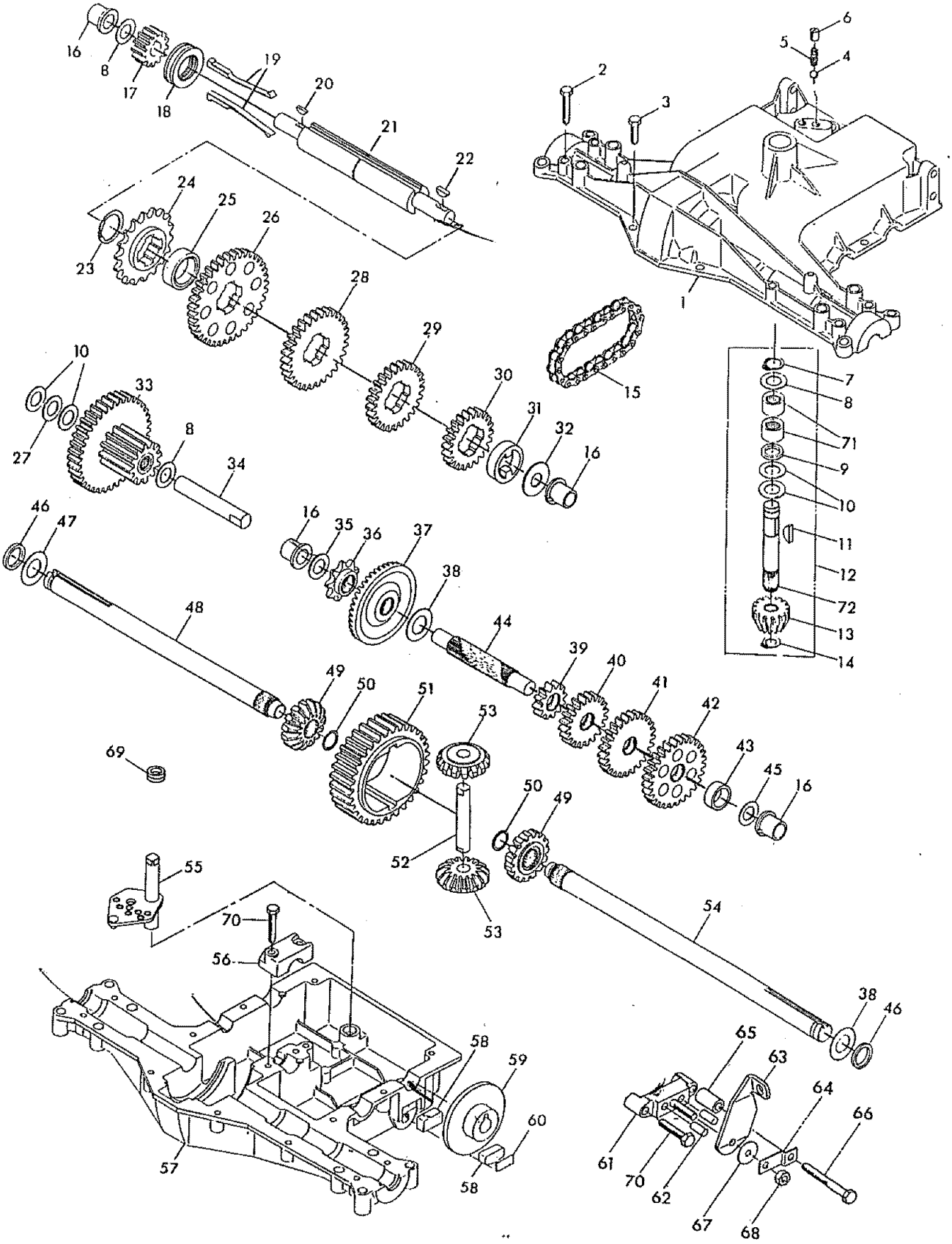
10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220
TRANSAXLE FOOTE--MODEL NUMBER 4150-41



10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220
TRANSAXLE FOOTE--MODEL NUMBER 4150-41

KEY NO.	PART NO.	DESCRIPTION
1	106845X	Housing, Upper
2	2276J	Screw, Tapping, 1/4 - 20 × 1.31 Lg.
3	2274J	Screw, Tapping, 1/4 - 20 × .875 Lg.
4	68003	Ball, Detent
5	105904X	Spring, Detent
6	105905X	Screw, Set
7	2267J	Ring, Retaining
8	2233J	Washer, Plain, .632 × 1.00 × .020
8	2232J	Washer, Plain, .632 × 1.00 × .026
8	2231J	Washer, Plain, .632 × 1.00 × .031
8	2230J	Washer, Plain, .632 × 1.00 × .036
8	2229J	Washer, Plain, .632 × 1.00 × .041
8	2228J	Washer, Plain, .632 × 1.00 × .046
8	2227J	Washer, Plain, .632 × 1.00 × .050
8	2226J	Washer, Plain, .632 × 1.00 × .060
8	105906X	Washer, Plain, .632 × 1.00 × .082
9	6725J	O-Ring
10	2228J	Washer, Plain, .632 × 1.00 × .046
11	2257J	Key, Woodruff, No. 9
12	110077X	Assembly, Kit, Input Shaft (Inc. Key No's 7,8,9,11,13,14,72 & 2 each Key No's 10 & 71)
13	110078X	Pinion, Bevel, 14T
14	105909X	Ring, Retaining
	105910X	Chain, 24 Pitches
	105911X	Bearing Flange
17	108976X	Gear, Spur, 14T
18	105913X	Collar, Clutch
19	105914X	Key, Clutch
20	2242J	Key, Woodruff, No. 3
21	105915X	Shaft, Intermediate
22	2244J	Key, Woodruff, No. 61
23	105916X	Ring, Retaining
24	105917X	Sprocket, 18T, Rev. Clutch
25	110070X	Spacer
26	108977X	Gear, Spur, 37T
27	108978X	Spacer, .630 × 1.00 × .169
28	108979X	Gear, Spur, 30T
29	108980X	Gear, Spur, 25T
30	108455X	Gear, Spur, 19T
31	105923X	Spacer
32	105925X	Washer, Plain, .640 × 1.37 × .061
33	110079X	Assembly, Gear, Comb, 12T ¿ 35T
34	105927X	Shaft, Idler
35	3413J	Washer, Plain, .631 × 1.00 × .010
36	105928X	Sprocket, 9T, Reverse Drive
37	110084X	Gear, Bevel, 42T
38	108983X	Washer, Plain, .758 × 1.12 × .010
38	105930X	Washer, Plain, .758 × 1.12 × .015
38	105931X	Washer, Plain, .758 × 1.12 × .020
38	105932X	Washer, Plain, .758 × 1.12 × .025
38	3417J	Washer, Plain, .758 × 1.25 × .020
38	106097X	Washer, Plain, .758 × 1.25 × .025
38	2264J	Washer, Plain, .758 × 1.25 × .031
38	106098X	Washer, Plain, .758 × 1.25 × .035
38	2265J	Washer, Plain, .758 × 1.25 × .040
38	106586X	Washer, Plain, .758 × 1.25 × .045
38	106587X	Washer, Plain, .758 × 1.25 × .050
38	106588X	Washer, Plain, .758 × 1.25 × .055
38	2263J	Washer, Plain, .758 × 1.25 × .062
39	105933X	Gear, Spur, 12T
40	105934X	Gear, Spur, 20T
41	106589X	Gear, Spur, 25T
42	105937X	Gear, Spur, 31T
43	105936X	Spacer
44	105938X	Shaft, Drive, Splined
45	2226J	Washer, Plain, .640 × 1.00 × .060
46	2272J	Seal, Felt
47	2264J	Washer, Plain, .758 × 1.25 × .031
48	110080X	Axle, L.H.
49	110081X	Gear, Miter, 15T
50	105941X	Ring, Retaining
51	110071X	Gear, Spur, 32T
52	110072X	Shaft, Cross
53	110082X	Gear, Miter, 15T
54	110083X	Axle, R.H.
55	108986X	Ass'y., Shifter
56	108987X	Cap., Support
57	105945X	Housing, Lower
58	108988X	Puck, Friction
59	64260	Disc, Brake
60	108989X	Spacer
61	110073X	Assembly Jaw, Brake
62	108991X	Pin, Dowel
63	108992X	Lever, Actuating
64	110074X	Bracket,Anti-Rotation
65	108994X	Spacer, .323 × .563 × 1.00 Lg.
66	108995X	Screw, Tapping, 5/16 - 18 × 2.50 Lg.
67	108996X	Washer, Plain, .321 × 1.00 × .055
68	73810500	Nut, Lock, 5/16 - 24
69	108727X	V-Ring
70	106596X	Screw, Tapping 5/16 - 18 × 1.44 Lg.
71	106782X	Bearing, Needle
72	-------	+ Input Shaft

*USE IN VARIOUS COMBINATIONS TO MAINTAIN PROPER CLEARANCES

+NOT SOLD SEPARATELY--ORDER KEY NO. 12

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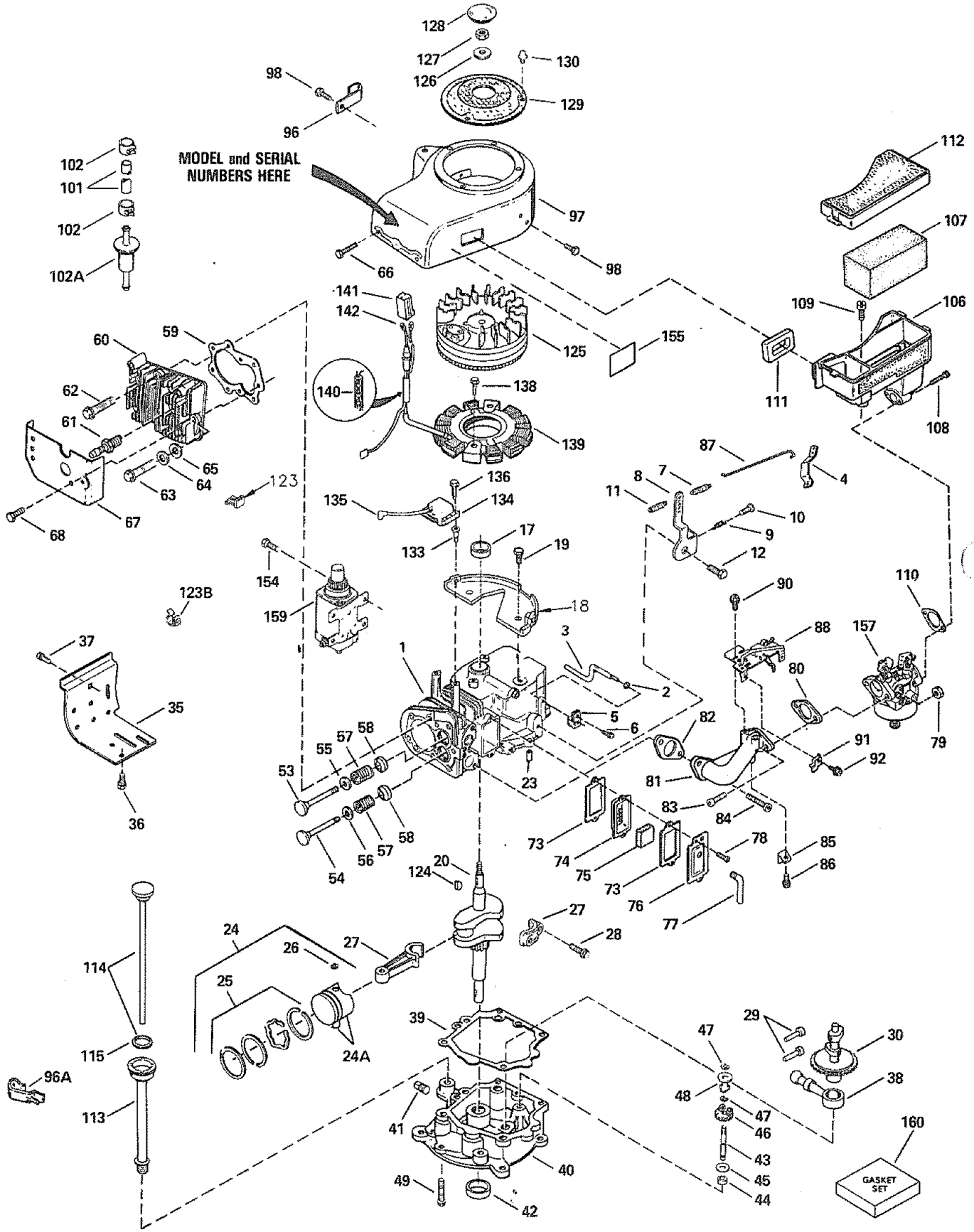
REPAIR PARTS

10 H.P. 36'' RIDING LAWN TRACTOR---MODEL NUMBER 917.254220
ENGINE TECUMSEH--MODEL NUMBER 143.376022



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REPAIR PARTS

10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220
ENGINE TECUMSEH--MODEL NUMBER 143.376022

Ref. No.	Part No.	Part Name
1	35379	Cylinder Assy. (Incl. Nos. 17 & 23)
2	28277	Washer, Flat
3	35082	Rod, Governor
4	32651	Lever, Governor
5	31335	Clamp, Governor lever
6	650548	Screw, Hex washer hd., 8-32 x 5/16
7	34043	Spring, Extension
8	35202	Lever, Control
9	33802	Spring, Compression
10	650777	Screw, Fil. hd., 6-32 x 9/16
11	35203	Spring, Control
12	650807	Screw, Hex washer hd. shoulder, 10-32 x 7/16
17	35319	Seal, Oil
18	35424	Baffle, Blower housing
19	650561	Screw, Hex washer hd. Durlok, 1/4-20 x 5/8
20	35388	Crankshaft
23	27652	Pin, Dowel
24	34860	Piston, Pin & Ring Assy. (Std.) (Incl. Nos. 24A, 25 & 26)
24	34861	Piston, Pin & Ring Assy. (.010 oversize) (Incl. Nos. 24A, 25 & 26)
24	34862	Piston, Pin & Ring Assy. (.020 oversize) (Incl. No. 24A, 25 & 26)
24A	34863	Piston & Pin Assy. (Std.) (Incl. No. 26)
24A	34864	Piston & Pin Assy. (.010 oversize) (Incl. No. 26)
24A	34865	Piston & Pin Assy. (.020 oversize) (Incl. No. 26)
25	34866	Ring Set, Piston (Std.)
25	34867	Ring Set, Piston (.010 oversize)
25	34868	Ring Set, Piston (.020 oversize)
26	27888	Pin, Piston pin retaining
27	35373	Rod Assy., Connecting (Incl. No. 28)
28	650882	Screw, Connecting rod
29	34034	Lifter, Valve
30	35381	Camshaft (Mechanical Compression Release)
35	33273A	Extension, Blower housing
36	30688	Screw, Hex hd. Sems, 1/4-20 x 1/2
37	650128	Screw, Fil. hd. Sems, 10-24 x 1/2
38	31356	Pump, Oil
39	*35262	Gasket, Mounting flange
40	35382	Flange Assy., Mounting (Incl. Nos. 41, 42, 43 & 45)
41	31927	Plug, Oil drain
42	35319	Seal, Oil
43	30668	Shaft, Governor
44	31707A	Spacer, Governor gear (Incl. No. 45)
45	30590A	Washer, Flat
46	35378	Gear Assy., Governor (Incl. No. 45)
47	29193	Ring, Retaining
48	30588A	Spool, Governor
49	650833	Screw, Hex washer hd. Powerlok, 1/4-20 x 1-3/16
53	27878A	Valve, Exhaust (Std.) (Incl. No. 58)
53	27880A	Valve, Exhaust (1/32" oversize) (Incl. No. 58)
54	34035	Valve, Intake (Std.) (Incl. No. 58)
54	34036	Valve, Intake (1/32" oversize) (Incl. No. 58)
55	27882	Cap, Upper valve spring (Exhaust)
56	34689	Seal Assy., Intake valve
57	27881	Spring, Valve
58	32581	Cap, Lower valve spring
59	*34923	Gasket, Cylinder head
60	34030	Head, Cylinder
61	33636	Plug, Spark (Champion J-8, Autolite 456 or equivalent) Except for Canada
62	6021A	Screw, Hex flange hd., 5/16-18 x 1-1/2
63	650694A	Screw, Hex flange hd., 5/16-18 x 2
64	650690	Washer, Belleville
65	650691	Washer, Flat
66	650788	Screw, Hex spinlock hd. thread forming, 5/16-18 x 3/4
67	33272A	Cover, Cylinder head
68	650738	Screw, Hex washer spinlock hd. thread forming, 1/4-20 x 5/8
73	*27896	Gasket, Breather
74	28423	Body, Breather
75	28424	Element, Breather
76	28425	Cover, Breather
77	27627	Tube, Breather
78	650128	Screw, Fil. hd. Sems, 10-24 x 1/2
79	29752	Nut & Lockwasher Assy., 1/4-28
80	*33263	Gasket, Carburetor
81	34926	Pipe, Intake
82	*27915	Gasket, Intake pipe
83	30088A	Screw, Fil. hd. Sems, 1/4-28 x 1
84	650378	Screw, Fil. hd. Sems, 5/16-18 x 1-1/8
85	33261	Bracket, Intake pipe
86	650738	Screw, Hex washer spinlock hd. thread forming, 1/4-20 x 5/8
87	33860	Link, Governor-to-throttle
88	35201	Bracket Assy., Control
90	30200	Screw, Hex washer hd. self-tap Sems, 10-24 x 9/16
91	27793	Clip, Conduit
92	28942	Screw, Hex washer hd. Sems, 10-32 x 3/8
96	33997	Clip, Oil fill tube
96A	35437	Clip, Oil fill tube
97	34094A	Housing, Blower
98	29747B	Screw, Phil. hex hd. Sems, 5/16-24 x 21/32
101	29774	Line, Fuel
102	26460	Clamp, Fuel line
102A	34279A	Filter, Fuel (Incl. No. 102)
106	34909	Body, Air cleaner
107	34910	Element, Air cleaner
108	650834	Screw, Fil. hd. Sems, Pilot Point, 10-32 x 1-17/32
109	650784	Screw, Hex hd. taptite w/flatwasher, 10-24 x 11/16
110	*33629	Gasket, Air cleaner
111	*34912	Gasket, Blower housing
112	34911	Cover, Air cleaner
113	33992A	Tube, Oil fill
114	33589A	Dipstick, Oil (Incl. No. 115)
115	33590	"O" Ring
123	29443	Clip, Spring
123B	27275	Clip, Hi-tension wire
124	32589	Key, Flywheel
125	611093	Flywheel (3 Amp w/ring gear)
126	650880	Washer, Flywheel
127	650881	Nut, Flywheel
128	34113	Plug, Blower housing
129	35411	Screen, Starter
130		Pop Rivet (Can be purchased locally)
133	650872	Stud, Solid state mounting
134	35135	Solid State Assy. (Incl. No. 135)
135	610118	Cover, Spark plug
136	650814	Screw, Hex hd Sems, 10-24 x 1
138	650873	Screw, Hex hd. Sems, 1/4-20 x 3/4
139	611096	Coil Assy., Alternator (3 Amp D.C.) (Incl. Nos. 140, 141 & 142)

*Indicates Parts Included in Gasket Set, Ref. No. 160.

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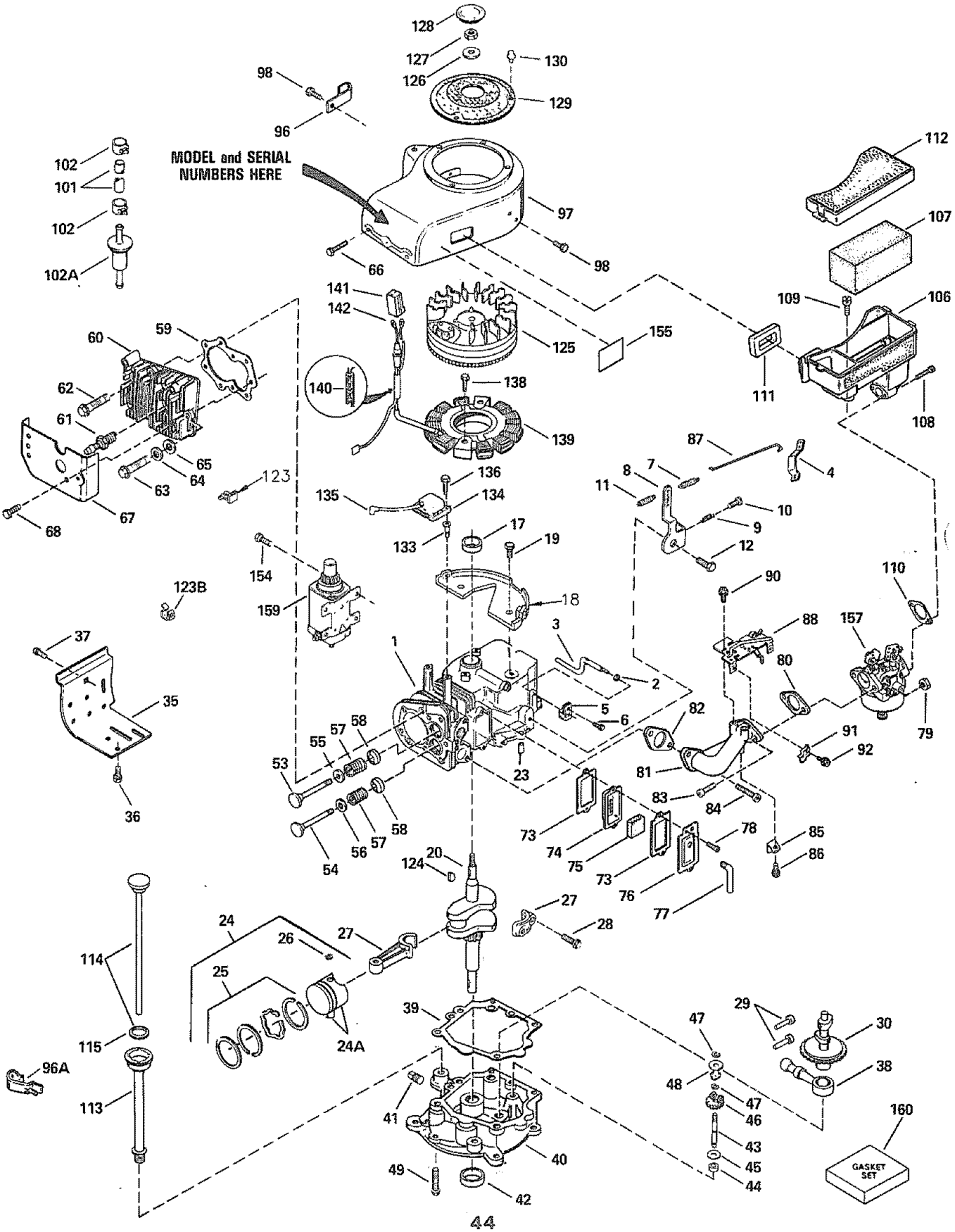
REPAIR PARTS

10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220
ENGINE TECUMSEH--MODEL NUMBER 143.376022



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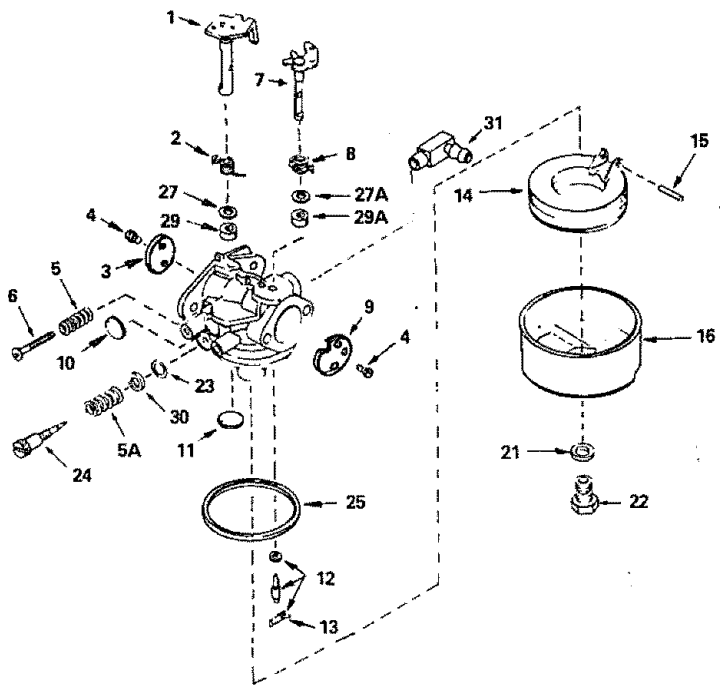
REPAIR PARTS

10 H.P. 36" RIDING LAWN TRACTOR---MODEL NUMBER 917.254220
ENGINE TECUMSEH--MODEL NUMBER 143.376022

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
140	610935	Diode	159	33605	Starter Motor (12 Volt)
141	610921	Body, Connector	160	33279D	Gasket Set (Incl. items marked *)
142	610922	Terminal, Female			
154	30688	Screw, Hex hd. Sems, 1/4-20 x 1/2			*Indicates Parts Included in Gasket Set, Ref. No. 160.
155	34346	Decal, Instruction			
157	632282	Carburetor (Incl. No. 80)			

CARBURETOR NO. 632282



Ref. No.	Part No.	Part Name
	632282	Carburetor
1	632243	Shaft & Lever Assy., Throttle
2	632244	Spring, Throttle return
3	632245	Shutter, Throttle
4	650506	Screw, Rd. hd., 4-40 x 3/16
5	630766	Spring, Idle regulating screw
5A	630766	Spring, Main adjustment screw
6	650417	Screw, Idle regulating
7	632246	Shaft & Lever Assy., Choke
8	632247	Spring, Return
9	632248	Shutter, Choke
10	630748	Plug, Welch
11	631027	Plug, Welch
12	631021	Inlet Needle, Seat & Clip Assy. (Incl. No. 13)
13	631022	Clip, Inlet needle
14	632019	Float, Carburetor
15	631024	Shaft, Float
16	631867	Bowl, Float
21	27110	Gasket, Bowl-to-body
22	632280	Nut, Float bowl
23	630740	"O" Ring, Adjustment screw
24	632281	Screw, Idle adjustment
25	631028	Gasket, Bowl-to-body
27	631184	Washer
27A	631184	Washer
29	631971	Seal, Dust
29A	631183	Seal, Dust
30	630739	Washer, Flat
31	631775	Fitting, Fuel

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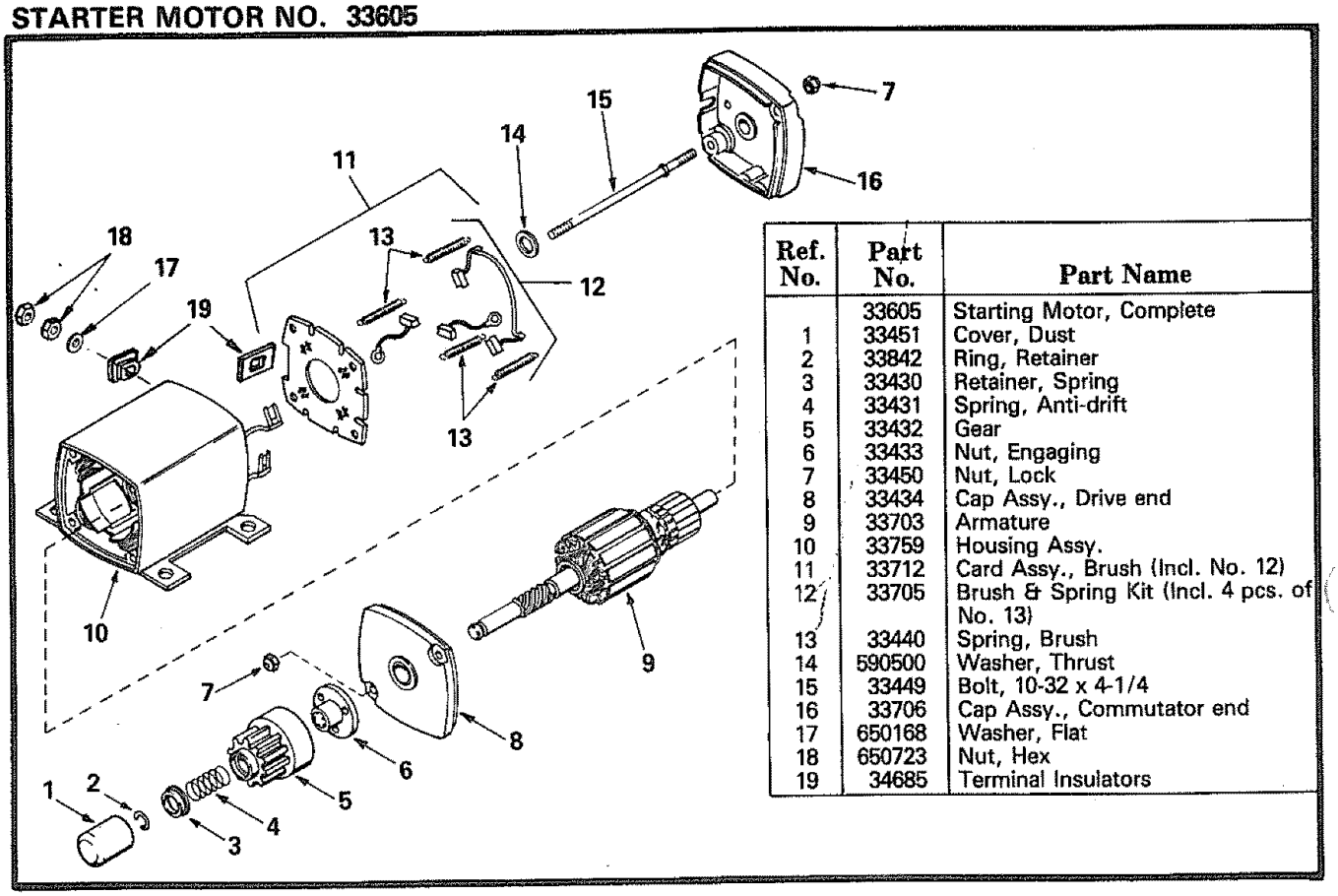
REPAIR PARTS

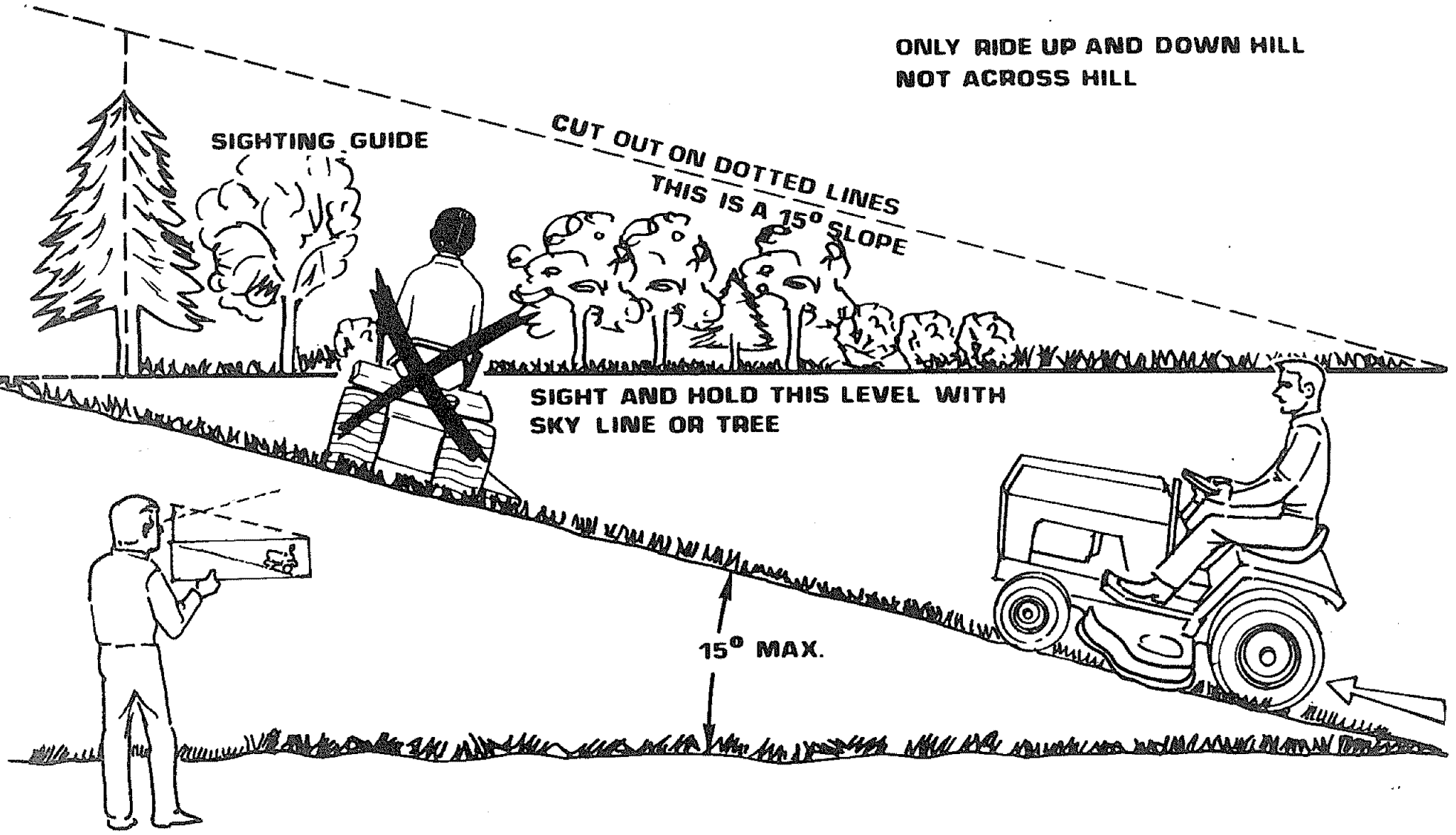
10 H.P. 36" RIDING LAWN TRACTOR--MODEL NUMBER 917.254220
ENGINE TECUMSEH--MODEL NUMBER 143.376022

STARTER MOTOR NO. 33605



Ref. No.	Part No.	Part Name
	33605	Starting Motor, Complete
1	33451	Cover, Dust
2	33842	Ring, Retainer
3	33430	Retainer, Spring
4	33431	Spring, Anti-drift
5	33432	Gear
6	33433	Nut, Engaging
7	33450	Nut, Lock
8	33434	Cap Assy., Drive end
9	33703	Armature
10	33759	Housing Assy.
11	33712	Card Assy., Brush (Incl. No. 12)
12	33705	Brush & Spring Kit (Incl. 4 pcs. of No. 13)
13	33440	Spring, Brush
14	590500	Washer, Thrust
15	33449	Bolt, 10-32 x 4-1/4
16	33706	Cap Assy., Commutator end
17	650168	Washer, Flat
18	650723	Nut, Hex
19	34685	Terminal Insulators

SUGGESTED GUIDE FOR SIGHTI..3 SLOPES FOR SAFE OPERATION


ONLY RIDE UP AND DOWN HILL
NOT ACROSS HILL
SIGHTING GUIDE
CUT OUT ON DOTTED LINES
THIS IS A 15° SLOPE
SIGHT AND HOLD THIS LEVEL WITH
SKY LINE OR TREE
15° MAX.

Operate your Tractor up and down the face of slopes (not greater than 15°); never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

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SEARS

OWNERS MANUAL

MODEL NO. 917.254220

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

LT 10HP ELECTRIC START 4 SPEED - 36'' MOWER LAWN TRACTOR

The Model Number will be found on the Model Plate attached to the Fender. Always provide the Model Number when requesting service or repair parts for your Lawn Tractor.

All parts listed herein may be ordered from any Sears Service Center/Departments and most Sears Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians having the parts, tools and the equipment to insure that we meet our pledge to you,''We Service What We Sell''.

Sears, Roebuck and Co. Chicago, IL 60684 U.S.A.

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